NW-A1000

SERVICE MANUAL

Ver. 1.0 2005.11

US Model
Canadian Model
AEP Model
UK Model
Australian Model
Korean Model

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SPECIFICATIONS

Audio compression technology
– MPEG-1 Audio Layer-3 (MP3)
– Adaptive Transform Acoustic Coding (ATRAC)

Maximum recordable number of track and time (Approx.)*

Bit rate	Tracks	Time
48 kbps	4,000	266 hours, 40 minutes
64 kbps	3,000	200 hours
96 kbps	2,000	133 hours, 20 minutes
128 kbps	1,500	100 hours
132 kbps	1,500	100 hours
160 kbps	1,200	80 hours
192 kbps	1,000	66 hours, 40 minutes
256 kbps	750	50 hours
320 kbps	600	40 hours

* When transferring four-minute tracks

Supported bit rates
MP3: 32 to 320 kbps (supports variable bite rate (VBR))
ATRAC: 48/64/66 (ATRAC3)*/96/105 (ATRAC3)*/128/132 (ATRAC3)/160/192/256/320 kbps
* You cannot record CDs in ATRAC3 format at 66 or 105 kbps using CONNECT Player.

Sampling frequencies
MP3: 44.1 kHz
ATRAC: 44.1 kHz

S/N Ratio
Headphones: 84 dB or more
LINE OUT: 96 dB or more

Frequency response
20 to 20,000 Hz (single signal measurement during playback)

Output
🎧 (headphones)/LINE OUT*: Stereo minijack/195 mV (10 Ω)
* The jack is used for both headphones and LINE OUT.

Operating temperature
5 to 35°C (41 to 95°F)

Power source
Built-in rechargeable battery DC IN 5 V
AC power adaptor: DC IN 5 V

Battery life (continuous playback)
In ATRAC format (48 kbps), Display 15 sec
Approx. 20 hours

In ATRAC format (128 kbps), Display 15 sec
Approx. 17 hours

In MP3 format (128 kbps), Display 15 sec
Approx. 17 hours

Dimension (w/h/d)
Approx. 55.0 88.1 18.7 mm (11.5 mm at thinnest point)*
(2 1/4 × 3 1/2 × 3/4 inches) (15/32 inches at thinnest point)*
* Not including projecting parts.

Dimension including projecting part (w/h/d)
Approx. 55.0 × 88.1 × 18.7 mm
(2 1/4 × 3 1/2 × 3/4 inches)

Mass
Approx. 109 g (3.9 oz)

Supplied Accessories
Headphones (1)
USB cable (1)
Headphone extension cord (1)
AC power cord (1)
AC power adaptor (1)
CD-ROM (1) (CONNECT Player software, Operation Guide (PDF file))
Quick Start Guide (1)

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DIGITAL MUSIC PLAYER

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Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 ˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COM- POSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

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SECTION 1
SERVICING NOTES

UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size)

: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 ˚C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350 ˚C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

NOTES ON REPLACEMENT OF CSP (CHIP SIZE PACKAGE) IC

Replacement of CXR710160-215GH (IC3101), S1R72003BOOA100 (IC5001), SCF5250 (IC6005) , EDS1216AABH-75-E/KM (IC7001), LC4128ZC-75MN132C (IC8001) and µPD68855 (IC9001) used in this set requires a special tool.

COLOR VARIATION

	VIOLET	SILVER	BLUE	PINK	BLACK	GOLD
US	●	●	●	●	●	●
Canadian	●	●	●	●		
AEP	●	●	●	●	●	●
UK	●	●	●	●	●	●
Australian	●	●	●	●		
Korean	●	●	●	●		

NOTES ON REPLACEMENT OF HDD UNIT

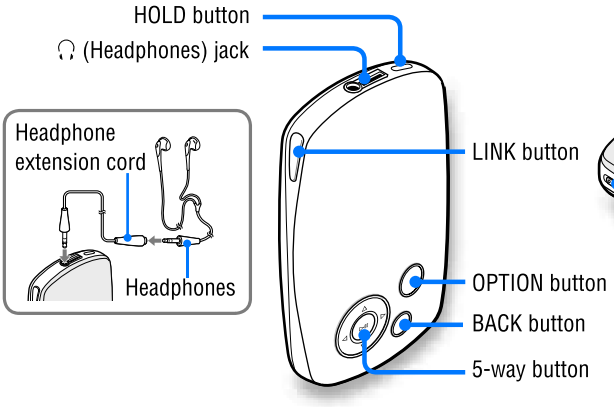
In this set, there are two kinds of HDD unit. (Refer to the figure below)
Though either of parts for the repair is supplied, there is no problem on the function even if which HDD unit is installed in the set.

– HITACHI type –

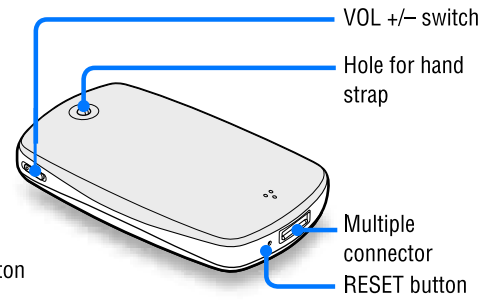
– Seagate type –

Guide to Parts and Controls

Front



Back



HOLD button

When you press and hold the HOLD button, “HOLD On” appears, the player is disabled, and the controls are locked. When you press and hold the HOLD button while the HOLD feature is on, “HOLD Off” appears, and the controls are unlocked again.

(Headphones) jack

Insert the headphone or the headphones extension cord until you feel a click. If the plug is not securely seated, sound may not be played properly through the headphones. The headphone jack is also used for LINE OUT connections.

LINK button

Searches for tracks by artists that belong to the similar genre to the artist of the currently playing track.

5-way button

Starts playback and enables navigation of the player’s on-screen menus.

BACK button

Press to go up one list screen level, or to return to the previous screen. Press and hold BACK to display the HOME menu.

OPTION button

Displays the Option menu.
To turn the player off, press and hold the OPTION button or select “Shut Down” from the Option menu, and then press ▷II

VOL +/– switch

Adjusts the volume when slid up or down.

Multiple connector

Connects the supplied USB cable.

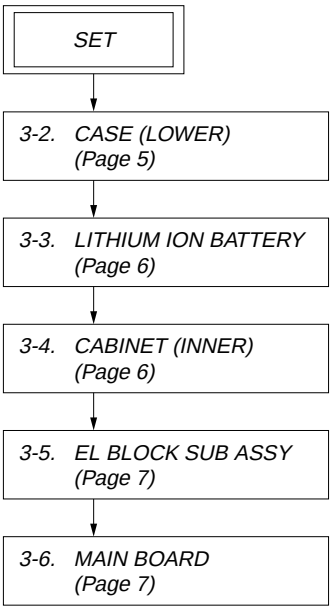
RESET button

Resets the player.

SECTION 3
DISASSEMBLY

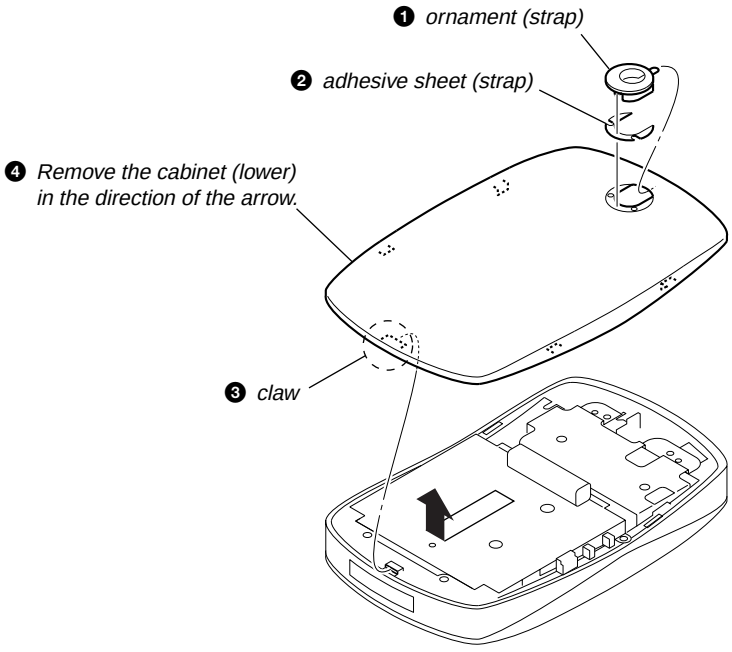
- This set can be disassembled in the order shown below.

3-1. DISASSEMBLY FLOW



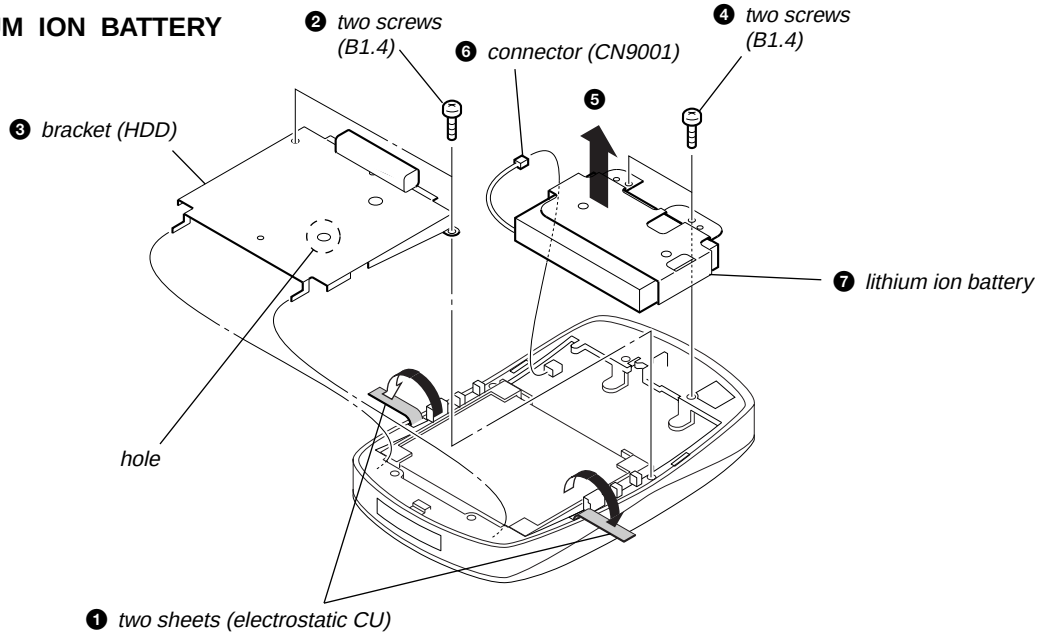
Note: Follow the disassembly procedure in the numerical order given.

3-2. CABINET (LOWER)



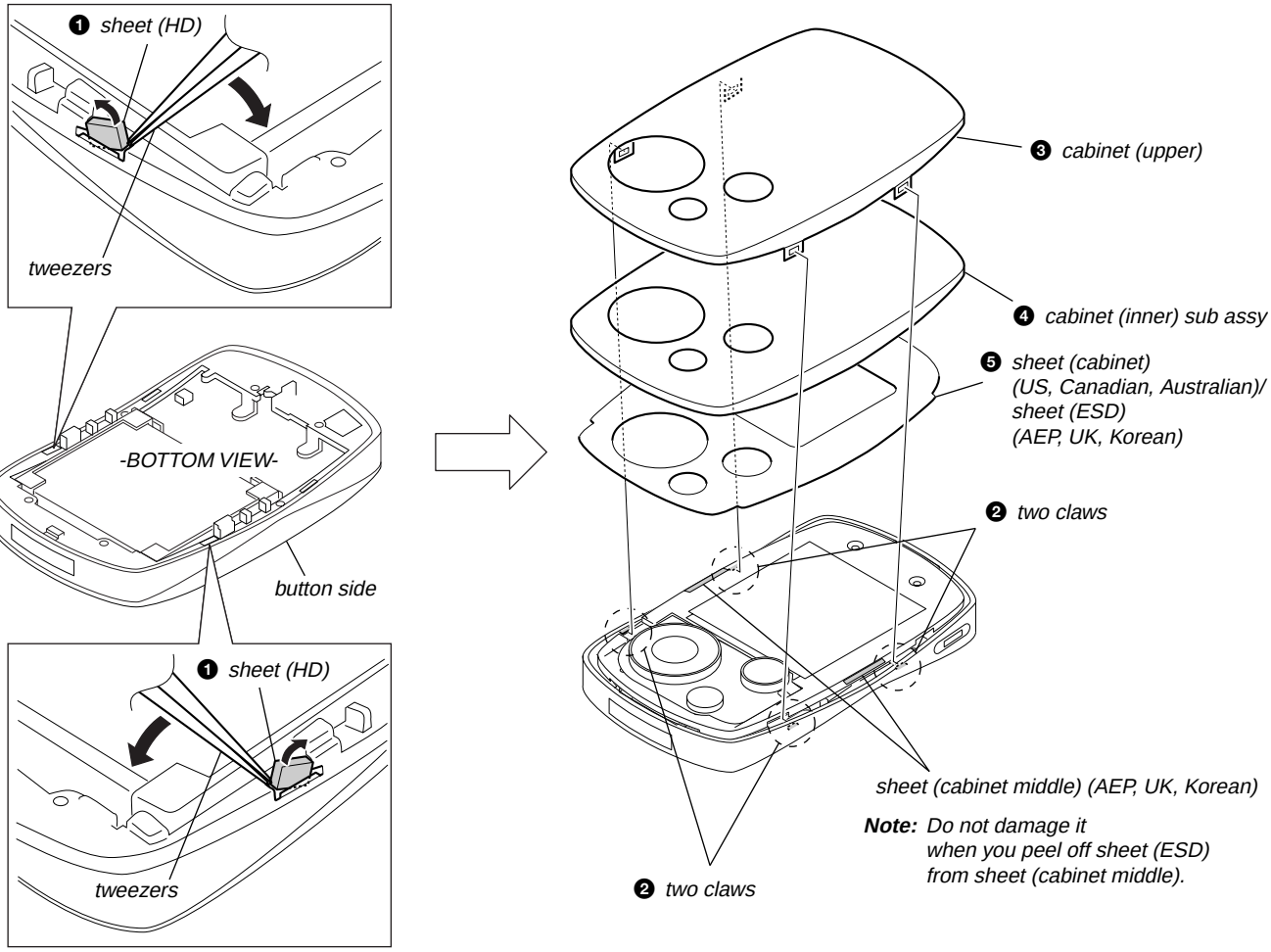
Note: *Execute the confirmation and the inspection of the correct repair of all parts after it repairs. And, install ornament (strap) and adhesive sheet (strap) after confirming the repair ended completely.*

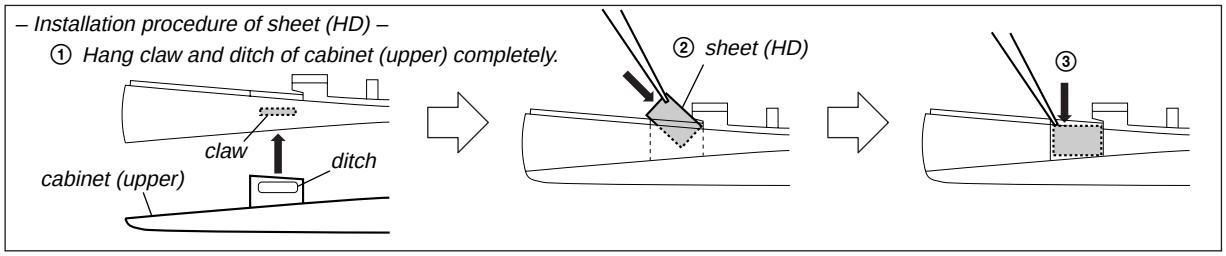
3-3. LITHIUM ION BATTERY



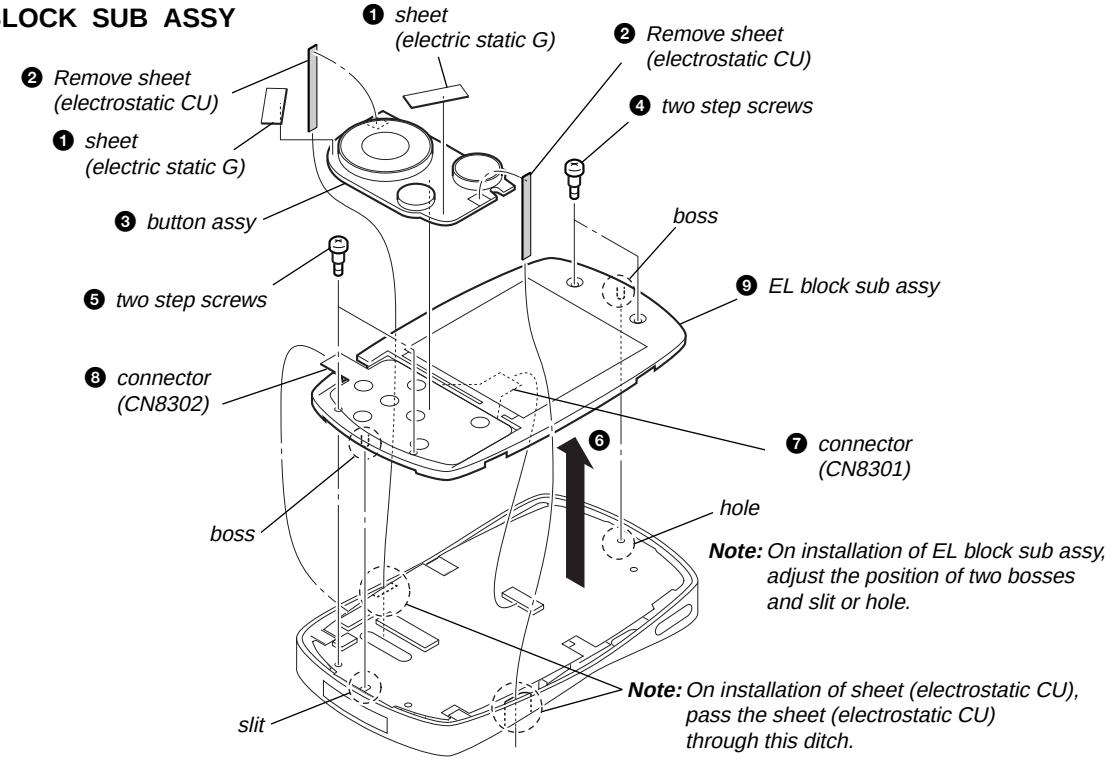
Note: *Do not close the hole of bracket (HDD) when you paste the sheets (electrostatic CU).*

3-4. CABINET (INNER)

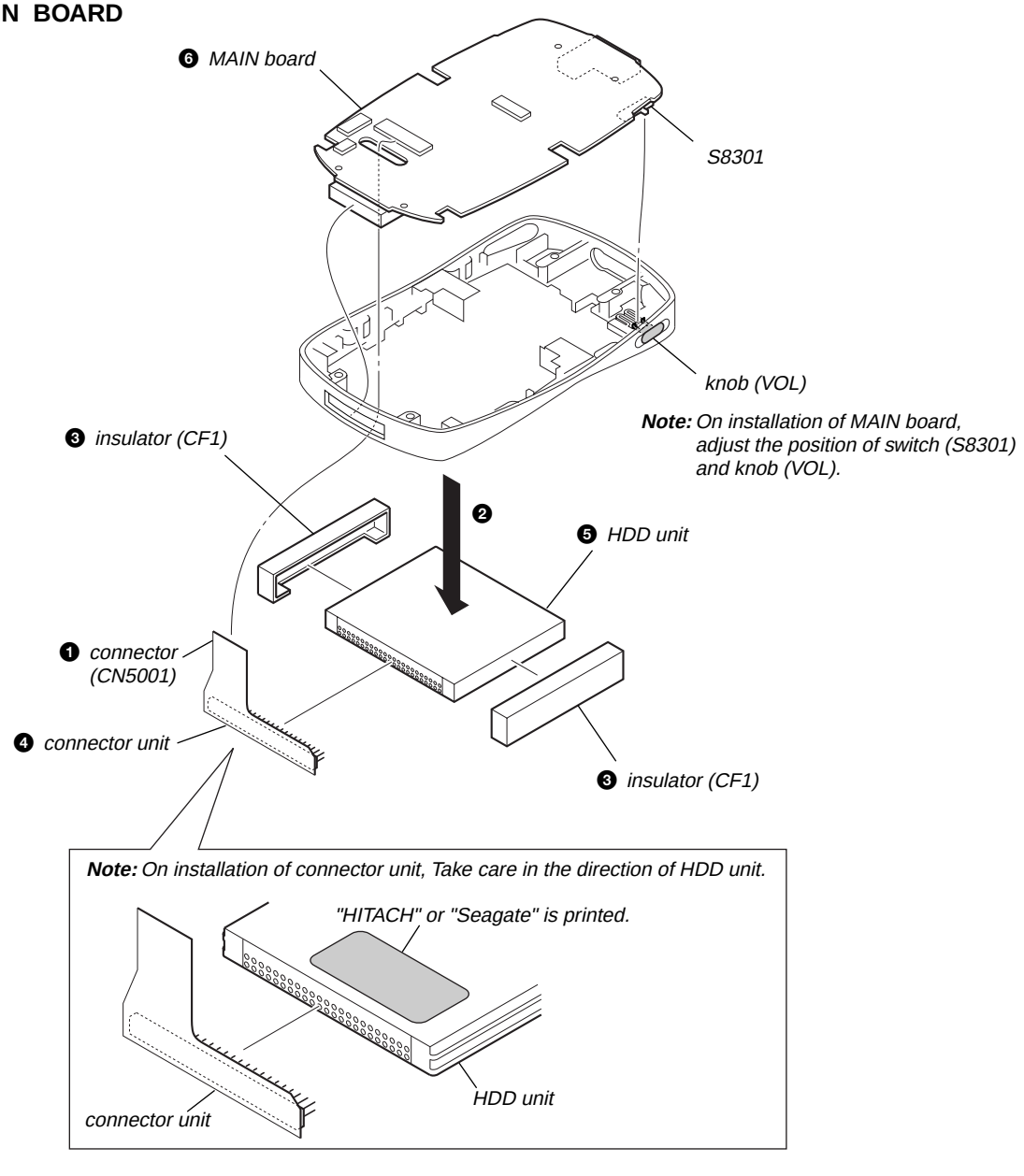

❶ sheet (HD)
tweezers
-BOTTOM VIEW-
button side
❶ sheet (HD)
tweezers
❸ cabinet (upper)
❹ cabinet (inner) sub assy
❺ sheet (cabinet) (US, Canadian, Australian)/ sheet (ESD) (AEP, UK, Korean)
❷ two claws
sheet (cabinet middle) (AEP, UK, Korean)
Note: Do not damage it when you peel off sheet (ESD) from sheet (cabinet middle).
❷ two claws



3-5. EL BLOCK SUB ASSY

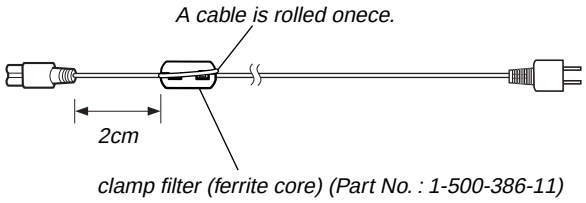

❶ sheet (electric static G)
❷ Remove sheet (electrostatic CU)
❷ Remove sheet (electrostatic CU)
❹ two step screws
❶ sheet (electric static G)
❸ button assy
boss
❺ two step screws
❾ EL block sub assy
❽ connector (CN8302)
❻
❼ connector (CN8301)
boss
hole
Note: On installation of EL block sub assy, adjust the position of two bosses and slit or hole.
Note: On installation of sheet (electrostatic CU), pass the sheet (electrostatic CU) through this ditch.
slit

3-6. MAIN BOARD

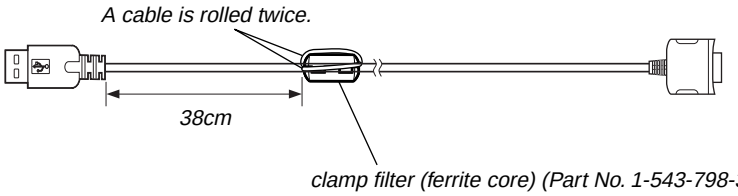

❻ MAIN board
S8301
knob (VOL)
Note: On installation of MAIN board, adjust the position of switch (S8301) and knob (VOL).
❸ insulator (CF1)
❷
❺ HDD unit
❶ connector (CN5001)
❹ connector unit
❸ insulator (CF1)
Note: On installation of connector unit, Take care in the direction of HDD unit.
"HITACH" or "Seagate" is printed.
HDD unit
connector unit

3-7. POSITION OF FERRITE CORE

-AC CORD-



-USB CABLE-



SECTION 4
TEST MODE

Note: Information on the test mode must correspond in enough security. When the leakage has been revealed by any chance, the source of information is specified.

1. BASAL CONDITION OF THE TEST MODE

Power supply voltage : 3.80 to 4.20 V
Volume : 27
SOUND EQ : OFF
AVLS : OFF
HOLD : OFF
Set states : horizontal, playback stop

2. SETTING THE TEST MODE

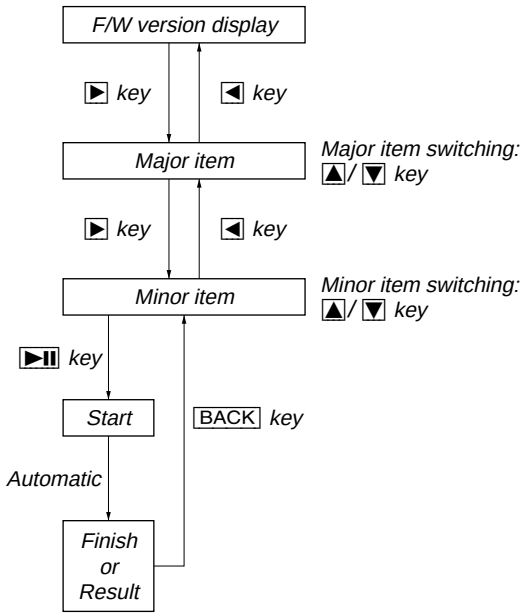
Setting method:

1. Turn the power on.
2. Press the [HOLD] key to set the hold on.
3. While pressing the [LINK] key, press the key as following order.
   [▲] → [▼] → [OPTION] → [▲] → [▼] → [►] → [◄] → [►] → [◄] → [◄] → [►II] → [OPTION]
4. Press the [HOLD] key to set the hold off and enter the test mode.

3. RELEASING THE TEST MODE

Press the [BACK] key for 1.5 seconds or more, turn the power off and release the test mode.

4. CONFIGURATION OF THE TEST MODE



5. OPERATION OF THE TEST MODE

5-1. Power

5-1-1. Power supply voltage check

This mode is used in case power supply voltage in the state where all power supply lines (1.10 V/1.3 V/1.8 V/3.0 V/3.0 V (VSTBY)/ 3.3 V/5.0 V) are starting is checked.

Checking method:

1. Enter the test mode.
2. Press the [►] key to display major item, and press the [▲]/[▼] key to select the "POWER".

EL display

POWER

3. Press the [►] key to display minor item, and press the [▲]/[▼] key to select the "V CHK".

EL display

V CHK

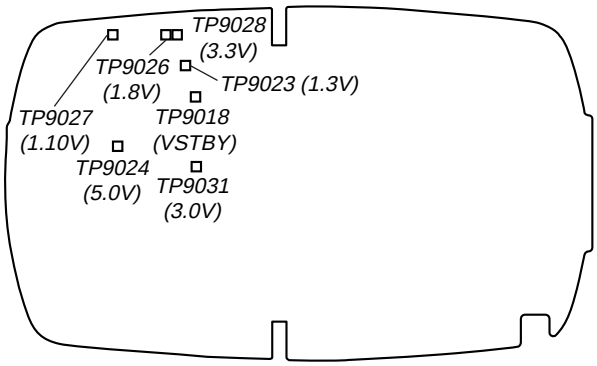
4. Press the [►II] key, "START" is displayed and all power supply lines are started.

EL display

START

In this state, the power supply voltage of each power supply line can be confirmed by measuring the voltage of the following points.

– MAIN Board (Component Side) –



Specified Value:

TP9027: 1.10 ± 0.05 V
TP9026: 1.8 ± 0.1 V
TP9018: 3.0 ± 0.1 V
TP9024: 5.0 ± 0.2 V
TP9023: 1.3 ± 0.1 V
TP9031: 3.0 ± 0.1 V
TP9028: 3.3 ± 0.1 V

5. Press the [OPTION] key, "HD ON" or "HD OFF" is displayed. In this state, each time [OPTION] key is pressed, hard disk drive power supply on/off switch is performed.

EL display

HD ON

6. Press the [BACK] key, return to minor item selection screen.

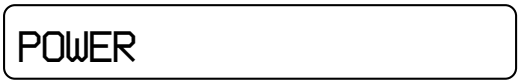
5-1-2. Consumption current (read state) check

This mode is used in case consumption current (read state) in the state where the hard disk drive has booted is checked.

Checking method:

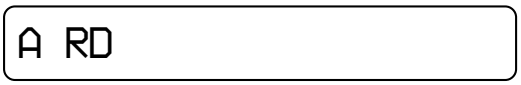
1. Enter the test mode.
2. Press the ► key to display major item, and press the ▲/▼ key to select the “POWER”.

EL display



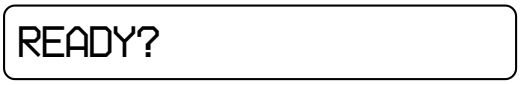
3. Press the ► key to display minor item, and press the ▲/▼ key to select the “A RD”.

EL display



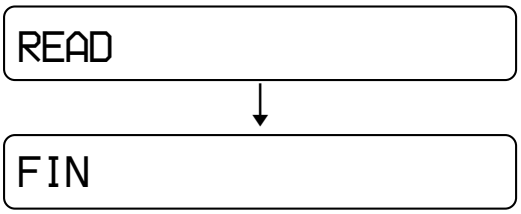
4. Press the ►II key, “READY?” is displayed.

EL display



5. Press the ►II key, “READ” is displayed and hard disk drive becomes read state.
   “FIN” is displayed automatically and read state is completed.

EL display



6. Press the BACK key, return to minor item selection screen.

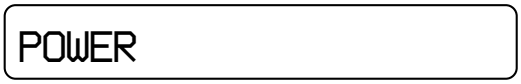
5-1-3. Consumption current (write state) check

This mode is used in case consumption current (write state) in the state where the hard disk drive has booted is checked.

Checking method:

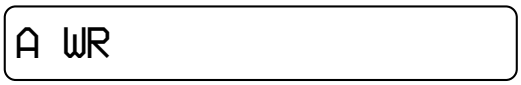
1. Enter the test mode.
2. Press the ► key to display major item, and press the ▲/▼ key to select the “POWER”.

EL display



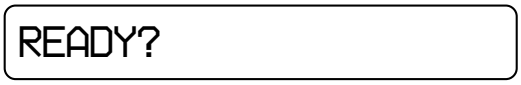
3. Press the ► key to display minor item, and press the ▲/▼ key to select the “A WR”.

EL display



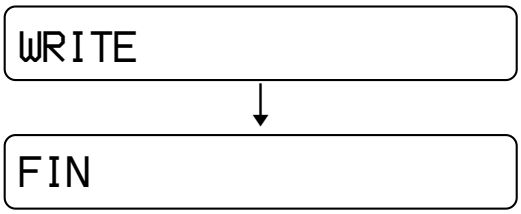
4. Press the ►II key, “READY?” is displayed.

EL display



5. Press the ►II key, “WRITE” is displayed and hard disk drive becomes read state.
   “FIN” is displayed automatically and read state is completed.

EL display



6. Press the BACK key, return to minor item selection screen.

5-2. Audio

While playing the audio track, it's in a repeat state. If [BACK] key is pressed, it's stopped.
Press the [VOL +] key to switch the HP/LINE.
The data for audio test mode is copied to hard disk drive from PC via USB.

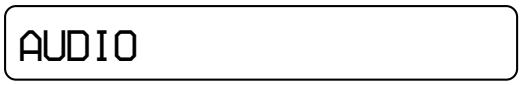
5-2-1. Output check

"1 kHz 0 dBs L-ch/R-ch VOLUME: 27" audio signal is outputted.

Checking method:

1. Enter the test mode.
2. Press the [►] key to display major item, and press the [▲]/[▼] key to select the "AUDIO".

EL display

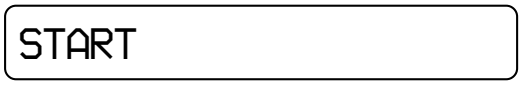


3. Press the [►] key to display minor item, and press the [▲]/[▼] key to select the "OUTPUT".

EL display

4. Press the [►II] key, "START" is displayed and "1 kHz 0 dBs L-ch/R-ch VOLUME: 27" audio signal is outputted. In this state, each time [OPTION] key is pressed, MUTE ON/OFF switch is performed.

EL display



5. Press the [BACK] key, return to minor item selection screen.

5-2-2. S/N check

"Infinity Zero VOLUME: 27" audio signal is outputted.

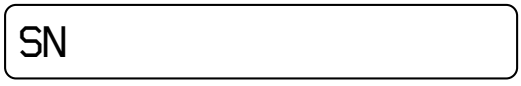
Checking method:

1. Enter the test mode.
2. Press the [►] key to display major item, and press the [▲]/[▼] key to select the "AUDIO".

EL display

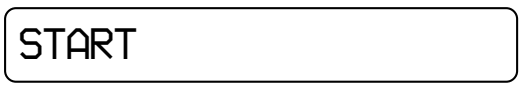
3. Press the [►] key to display minor item, and press the [▲]/[▼] key to select the "SN".

EL display



4. Press the [►II] key, "START" is displayed and "Infinity Zero VOLUME: 27" audio signal is outputted.

EL display



5. Press the [BACK] key, return to minor item selection screen.

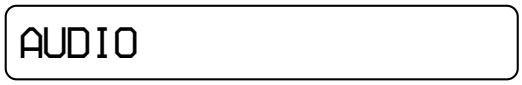
5-2-3. Frequency characteristic check

"20 Hz/20 kHz/100 Hz/10 kHz 0 dBs L-ch/R-ch VOLUME: 21" audio signal is outputted.

Checking method:

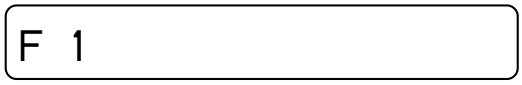
1. Enter the test mode.
2. Press the [►] key to display major item, and press the [▲]/[▼] key to select the "AUDIO".

EL display



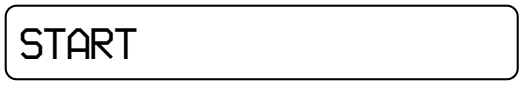
3. Press the [►] key to display minor item, and press the [▲]/[▼] key to select the "F 1".

EL display



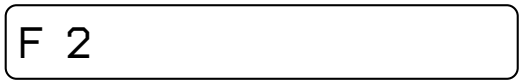
4. Press the [►II] key, "START" is displayed and "20 Hz 0 dBs L-ch/R-ch VOLUME: 21" audio signal is outputted.

EL display



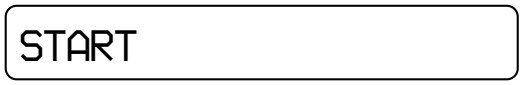
5. Press the [BACK] key, return to minor item selection screen.
6. Press the [▲]/[▼] key to select the "F 2".

EL display



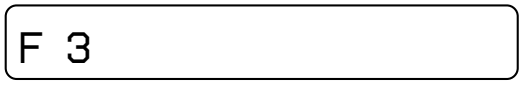
7. Press the [►II] key, "START" is displayed and "20 kHz 0 dBs L-ch/R-ch VOLUME: 21" audio signal is outputted.

EL display



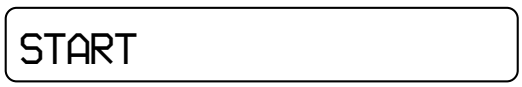
8. Press the [BACK] key, return to minor item selection screen.
9. Press the [▲]/[▼] key to select the "F 3".

EL display



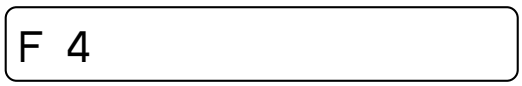
10. Press the [►II] key, "START" is displayed and "100 Hz 0 dBs L-ch/R-ch VOLUME: 21" audio signal is outputted.

EL display



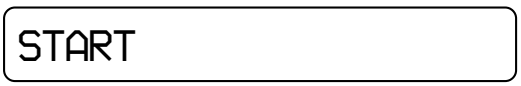
11. Press the [BACK] key, return to minor item selection screen.
12. Press the [▲]/[▼] key to select the "F 4".

EL display



13. Press the [►II] key, "START" is displayed and "100 kHz 0 dBs L-ch/R-ch VOLUME: 21" audio signal is outputted.

EL display



14. Press the [BACK] key, return to minor item selection screen.

5-2-4. CH separation check

"1 kHz 0 dBs L-ch/R-ch MP3 VOLUME: 27" audio signal is outputted.

Checking method:

1. Enter the test mode.
2. Press the [►] key to display major item, and press the [▲]/[▼] key to select the "AUDIO".

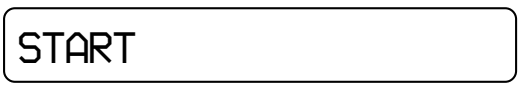
EL display

3. Press the [►] key to display minor item, and press the [▲]/[▼] key to select the "SEP LR".

EL display

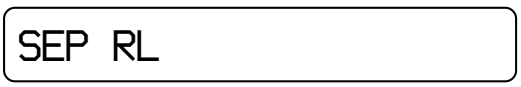
4. Press the [►II] key, "START" is displayed and "1 kHz 0 dBs L-ch MP3 VOLUME: 27" audio signal is outputted.

EL display



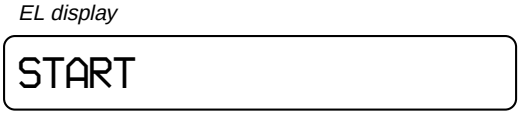
5. Press the [BACK] key, return to minor item selection screen.
6. Press the [▲]/[▼] key to select the "SEP RL".

EL display



7. Press the [►II] key, "START" is displayed and "1 kHz 0 dBs R-ch MP3 VOLUME: 27" audio signal is outputted.

EL display



8. Press the [BACK] key, return to minor item selection screen.

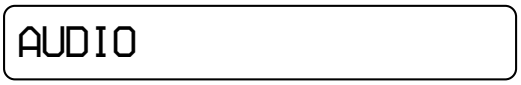
5-2-5. Maximum output check

"1 kHz 0 dBs L-ch/R-ch VOLUME: 30" audio signal is outputted.

Checking method:

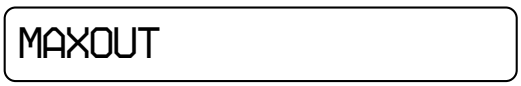
1. Enter the test mode.
2. Press the [►] key to display major item, and press the [▲]/[▼] key to select the "AUDIO".

EL display



3. Press the [►] key to display minor item, and press the [▲]/[▼] key to select the "MAXOUT".

EL display



4. Press the [►II] key, "START" is displayed and "1 kHz 0 dBs L-ch/R-ch VOLUME: 30" audio signal is outputted. In this state, each time [OPTION] key is pressed, AVLS ON/OFF switch is performed.

EL display

5. Press the [BACK] key, return to minor item selection screen.

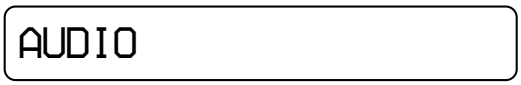
5-2-6. SOUND EQ check

"100 Hz/250 Hz/630 Hz/1.6 kHz/4 kHz/10 kHz –20 dBs L-ch/R-ch VOLUME: 30" audio signal is outputted.

Checking method:

1. Enter the test mode.
2. Press the [►] key to display major item, and press the [▲]/[▼] key to select the "AUDIO".

EL display

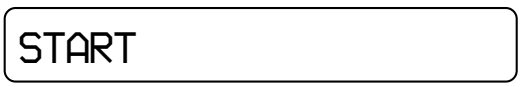


3. Press the [►] key to display minor item, and press the [▲]/[▼] key to select the "EQ 1".

EL display

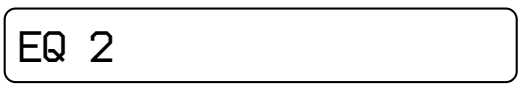
4. Press the [►II] key, "START" is displayed and "100 Hz –20 dBs L-ch/R-ch VOLUME: 30" audio signal is outputted. EQ LEVEL MAX/MIN/OFF switch is performed.

EL display



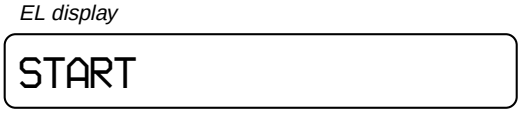
5. Press the [BACK] key, return to minor item selection screen.
6. Press the [▲]/[▼] key to select the "EQ 2".

EL display



7. Press the [►II] key, "START" is displayed and "250 Hz –20 dBs L-ch/R-ch VOLUME: 30" audio signal is outputted. EQ LEVEL MAX/MIN/OFF switch is performed.

EL display



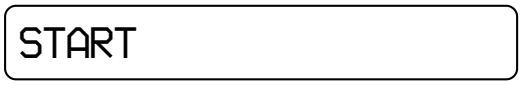
8. Press the [BACK] key, return to minor item selection screen.

9. Press the [▲]/[▼] key to select the “EQ 3”.

EL display

10. Press the [►II] key, “START” is displayed and “630 Hz –20 dBs L-ch/R-ch VOLUME: 30” audio signal is outputted. EQ LEVEL MAX/MIN/OFF switch is performed.

EL display



11. Press the [BACK] key, return to minor item selection screen.
12. Press the [▲]/[▼] key to select the “EQ 4”.

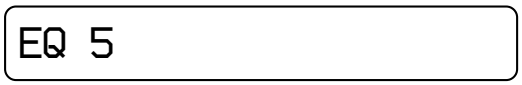
EL display

13. Press the [►II] key, “START” is displayed and “1.6 kHz –20 dBs L-ch/R-ch VOLUME: 30” audio signal is outputted. EQ LEVEL MAX/MIN/OFF switch is performed.

EL display

14. Press the [BACK] key, return to minor item selection screen.
15. Press the [▲]/[▼] key to select the “EQ 5”.

EL display

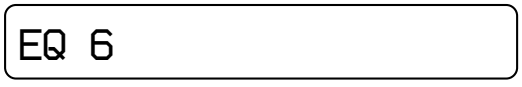


16. Press the [►II] key, “START” is displayed and “4 kHz –20 dBs L-ch/R-ch VOLUME: 30” audio signal is outputted. EQ LEVEL MAX/MIN/OFF switch is performed.

EL display

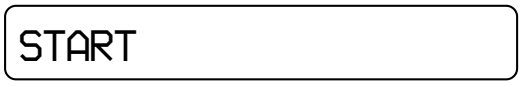
17. Press the [BACK] key, return to minor item selection screen.
18. Press the [▲]/[▼] key to select the “EQ 6”.

EL display



19. Press the [►II] key, “START” is displayed and “10 kHz –20 dBs L-ch/R-ch VOLUME: 30” audio signal is outputted. EQ LEVEL MAX/MIN/OFF switch is performed.

EL display



20. Press the [BACK] key, return to minor item selection screen.

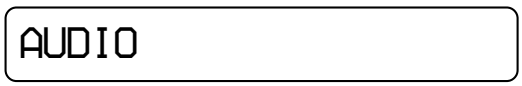
5-2-7. BEEP check

BEEP sound is outputted.

Checking method:

1. Enter the test mode.
2. Press the [►] key to display major item, and press the [▲]/[▼] key to select the “AUDIO”.

EL display



3. Press the [►] key to display minor item, and press the [▲]/[▼] key to select the “BEEP”.

EL display

4. Press the [►II] key, “START” is displayed and BEEP sound is outputted.

EL display

5. Press the [BACK] key, return to minor item selection screen.

5-2-8. Sound pressure regulation level check

“1 kHz 0 dBs L-ch/R-ch VOLUME: 30” audio signal is outputted.

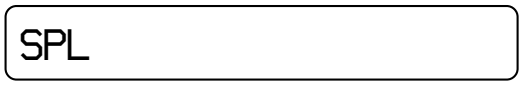
Checking method:

1. Enter the audio test mode.
2. Press the [►] key to display major item, and press the [▲]/[▼] key to select the “AUDIO”.

EL display

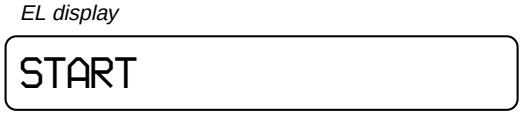
3. Press the [►] key to display minor item, and press the [▲]/[▼] key to select the “SPL”.

EL display



4. Press the [►II] key, “START” is displayed and “1 kHz 0 dBs L-ch/R-ch VOLUME: 30” audio signal is outputted.

EL display



5. Press the [BACK] key, return to minor item selection screen.

5-3. Others

5-3-1. G-sensor check

X/Y/Z-axis direction is checked.

Checking method:

1. Enter the test mode.
2. Press the [►] key to display major item, and press the [▲]/[▼] key to select the “OTHERS”.

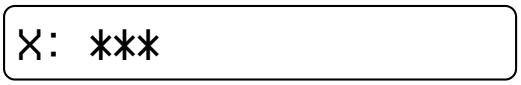
EL display

3. Press the [►] key to display minor item, and press the [▲]/[▼] key to select the “G TEST”.

EL display

4. Press the [►II] key, X-axis direction is displayed. (Press the [BACK] key, return to minor item selection screens)

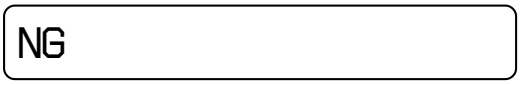
EL display



****: A/D value (hexadecimal)*

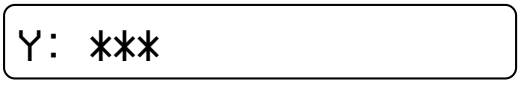
Note: “NG**”** is displayed when the G-sensor has broken (Press the [BACK] key, return to minor item selection screens).

EL display



5. Press the [►II] key, Y-axis direction is displayed. (Press the [BACK] key, return to minor item selection screens)

EL display



****: A/D value (hexadecimal)*

6. Press the [►II] key, Z-axis direction is displayed. (Press the [BACK] key, return to minor item selection screens)

EL display

****: A/D value (hexadecimal)*

7. Press the [BACK] key, return to minor item selection screen.

5-3-2. Clock check

Clock operation is checked.

Checking method:

1. Enter the test mode.
2. Press the [►] key to display major item, and press the [▲]/[▼] key to select the “OTHERS”.

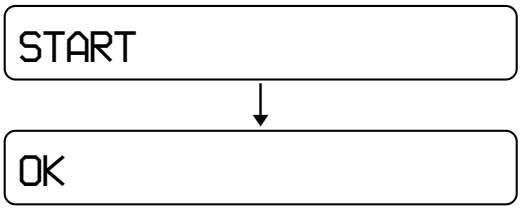
EL display

3. Press the [►] key to display minor item, and press the [▲]/[▼] key to select the “CLOCK”.

EL display

4. Press the [►II] key, “START” is displayed. Then “OK” or “NG” is displayed automatically.

EL display



5. Press the [BACK] key, return to minor item selection screen.

5-3-3. Key check

EL display corresponding to the pressed key is performed.

Checking method:

1. Enter the test mode.
2. Press the [►] key to display major item, and press the [▲]/[▼] key to select the “OTHERS”.

EL display

3. Press the [►] key to display minor item, and press the [▲]/[▼] key to select the “KET CH”.

EL display

4. Press the [►II] key, START" is displayed and EL display corresponding to the pressed key is performed.
   Press on all the keys displays "SET OK".

Key	EL display
[►II]	PLAY
[BACK]	BACK
[OPTION]	MENU
[►]	FF
[◄]	REW
[▲]	UP
[▼]	DOWN
[VOL +]	VOL+
[VOL –]	VOL–
[LINK]	DISCOV

5. Press the [HOLD] key to turn the hold on. Press the [HOLD] key again to turn the hold off, "FMTOK?" is displayed.

EL display

FMTOK?

6. Press the [►II] key, format of hard disk drive is performed. (press the [BACK] key, return to minor item selection screens)
   Then "OK" or "NG" is displayed automatically.
7. Press the [BACK] key, return to minor item selection screen.

5-3-4. OEL display check

EL display is checked.

Checking method:

1. Enter the test mode.
2. Press the [►] key to display major item, and press the [▲]/[▼] key to select the "OTHERS".

EL display

OTHERS

3. Press the [►] key to display minor item, and press the [▲]/[▼] key to select the "OEL1".

EL display

OEL1

4. Press the [►II] key, EL all segments turned on.
5. Press the [BACK] key, return to minor item selection screen.
6. Press the [▲]/[▼] key to select the "OEL2".

EL display

OEL2

7. Press the [►II] key, EL all segments turned off.
8. Press the [BACK] key, return to minor item selection screen.
9. Press the [▲]/[▼] key to select the "OEL3".

EL display

OEL3

10. Press the [►II] key, monochrome lattice is displayed on the EL.
11. Press the [BACK] key, return to minor item selection screen.
12. Press the [▲]/[▼] key to select the "OEL4".

EL display

OEL4

13. Press the [►II] key, monochrome lattice (reverse version of step 10) is displayed on the EL.
14. Press the [BACK] key, return to minor item selection screen.

5-3-5. G-sensor adjustment

X/Y/Z-axis direction is adjusted.

Adjustment method:

1. Enter the test mode.
2. Press the [►] key to display major item, and press the [▲]/[▼] key to select the "OTHERS".

EL display

OTHERS

3. Press the [►] key to display minor item, and press the [▲]/[▼] key to select the "G CLB".

EL display

G CLB

4. Press the [►II] key, "–Z" is displayed. Main unit is fixed so that ⑥ of fig.1 may become downward and press the [►II] key.

EL display

–Z

5. "–Y" is displayed. Main unit is fixed so that ④ of fig.1 may become downward and press the [►II] key.

EL display

–Y

6. "–X" is displayed. Main unit is fixed so that ② of fig.1 may become downward and press the [►II] key.

EL display

–X

7. "+Z" is displayed. Main unit is fixed so that ⑤ of fig.1 may become downward and press the [►II] key.

EL display

+Z

8. "+X" is displayed. Main unit is fixed so that ① of fig.1 may become downward and press the [►II] key.

EL display

+X

9. "+Y" is displayed. Main unit is fixed so that ③ of fig.1 may become downward and press the [►II] key.

EL display

+Y

10. "CALIB" is displayed. Press the [►II] key, G-sensor is adjusted. Then "FIN", "DAT NG" or "SEN NG" is displayed automatically. (Press the [BACK] key, return to minor item selection screens)

EL display

CALIB

↓

FIN

FIN : Normally completing.
DAT NG : The data for performing a calibration is faulty.
SEN NG : The value acquired from the G-sensor is faulty.

11. The offset and the sensitivity of each axis are displayed by pressing the [►II] key when normally completing in order of X, Y and Z.

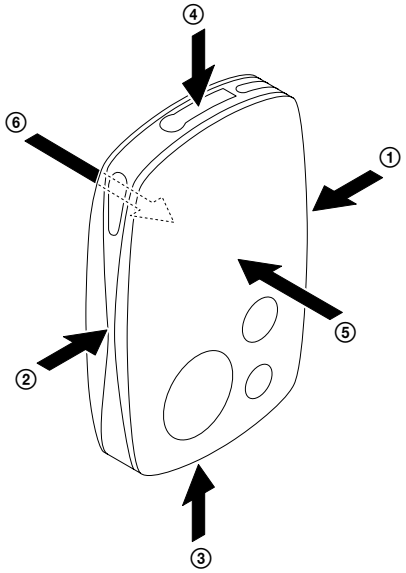
EL display

*** ##

***: *offset*, ##: *sensitivity*

12. Press the [BACK] key, return to minor item selection screen.

Fig.1 Axis direction of G-sensor adjustment



5-3-6. G-sensor adjustment check

This mode checks that G-sensor adjustment is performed or not performed.

Checking method:

1. Enter the test mode.
2. Press the [►] key to display major item, and press the [▲]/[▼] key to select the "OTHERS".

EL display

OTHERS

3. Press the [►] key to display minor item, and press the [▲]/[▼] key to select the "G CHK".

EL display

G CHK

4. Press the [►II] key, "START" is displayed. Then "OK" or "YET" is displayed automatically.

EL display

START

↓

OK

5. Press the [BACK] key, return to minor item selection screen.

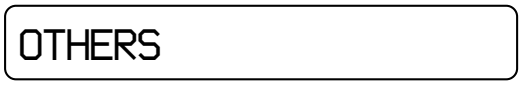
5-3-7. Hard disk drive sector read

Sector of hard disk drive is read.

Checking method:

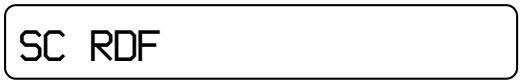
1. Enter the test mode.
2. Press the ► key to display major item, and press the ▲/▼ key to select the “OTHERS”.

EL display



3. Press the ► key to display minor item, and press the ▲/▼ key to select the “SC RDF”.

EL display

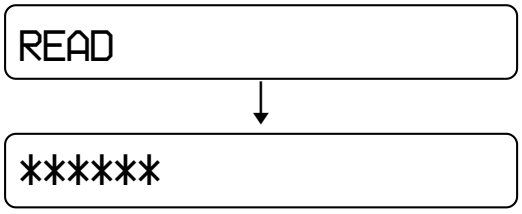


4. Press the ►II key, “READY?” is displayed.

EL display

5. Press the ►II key, “READ” is displayed and sector of hard disk drive is read. (This operation takes for several hours) Then the number of error sector is displayed automatically.

EL display



******: number of error sector*

6. Press the BACK key, return to minor item selection screen.

5-3-8. Hard disk drive check

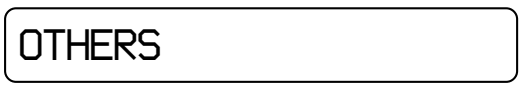
Hard disk drive is checked.

Note: Note that user’s data is deleted to execute the reading and writing of data in the check of hard disk drive.

Checking method:

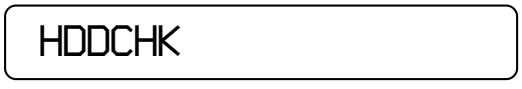
1. Enter the test mode.
2. Press the ► key to display major item, and press the ▲/▼ key to select the “OTHERS”.

EL display



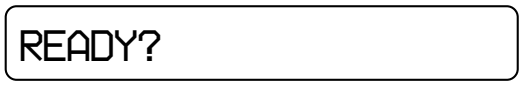
3. Press the ► key to display minor item, and press the ▲/▼ key to select the “HDDCHK”.

EL display



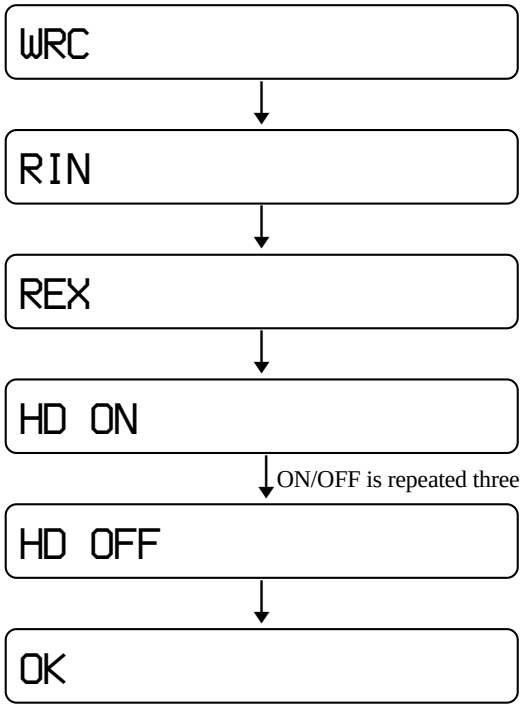
4. Press the ►II key, “READY?” is displayed.

EL display



5. Press the ►II key, check of hard disk drive is started. When the display changes automatically as follows, and the check is completed, “OK” or error code is displayed. (Press the BACK key, return to minor item selection screens)

EL display



Error Code:

PWRER1	: NG in power on.
WRC***	: NG in random W/R/C.
RIN***/REX***	: NG in sequential R.
PWRER2	: NG in on/off cycle.

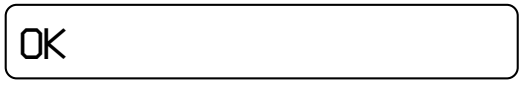
Note: *** is a number of errors.

6. Press the ►II key, “FMTOK?” is displayed.

EL display

7. Press the ►II key, format of hard disk drive is performed. Then “OK” or “NG” is displayed automatically.

EL display



8. Press the BACK key, return to minor item selection screen.

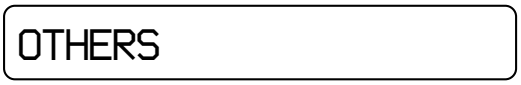
5-3-9. Destination setting

Setting the destination.

Setting method:

1. Enter the test mode.
2. Press the ► key to display major item, and press the ▲/▼ key to select the “OTHERS”.

EL display



3. Press the ► key to display minor item, and press the ▲/▼ key to select the “DEST”.

EL display

4. Press the ►II key, destination (JP/US/EU/CN/KR/GA) is displayed. Press the OPTION key, destination (JP/US/EU/CN/KR/GA) is selected.
   Press the ►II key, destination is entered.
   Press the BACK key when canceling.

Destination	Default language	Sound pressure regulation
JP	Japanese	OFF
US	English	OFF
EU	English	ON
CN	Chinese	OFF
KR	Korean	OFF
GA	English	OFF

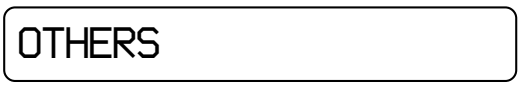
5-3-10. Language setting

Setting the language.

Setting method:

1. Enter the test mode.
2. Press the ► key to display major item, and press the ▲/▼ key to select the “OTHERS”.

EL display



3. Press the ► key to display minor item, and press the ▲/▼ key to select the “LANG”.

EL display

4. Press the ►II key, language (JAP/ENG/FRE/GER/ITA/SPA/S_CNA/T_CNA/KOR) is displayed. Press the OPTION key, destination (JAP/ENG/FRE/GER/ITA/SPA/S_CNA/T_CNA/KOR) is selected.
   Press the ►II key, language is entered.
   Press the BACK key when canceling.

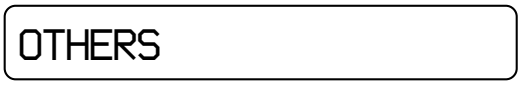
5-3-11. Sound pressure regulation setting

Setting the sound pressure regulation.

Setting method:

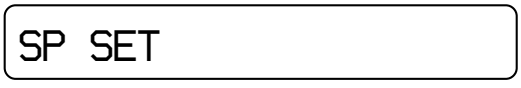
1. Enter the test mode.
2. Press the ► key to display major item, and press the ▲/▼ key to select the “OTHERS”.

EL display



3. Press the ► key to display minor item, and press the ▲/▼ key to select the “SP SET”.

EL display



4. Press the ►II key, ON/OFF is displayed. Press the OPTION key, sound pressure regulation ON/OFF is selected.
   Press the ►II key, sound pressure regulation ON/OFF is entered.
   Press the BACK key when canceling.

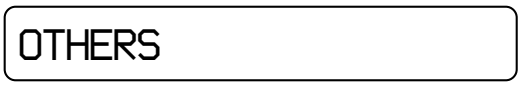
5-3-12. Factory setting

Factory setting is performed.

Setting method:

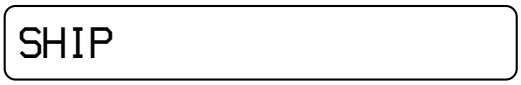
1. Enter the test mode.
2. Press the ► key to display major item, and press the ▲/▼ key to select the “OTHERS”.

EL display



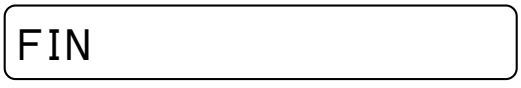
3. Press the ► key to display minor item, and press the ▲/▼ key to select the “SHIP”.

EL display



4. Press the ►II key, factory setting is performed. Then “FIN” is displayed.

EL display



5. Press the BACK key, return to minor item selection screen.

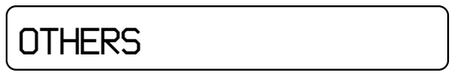
5-3-13. SDRAM check

SDRAM is checked.

Checking method:

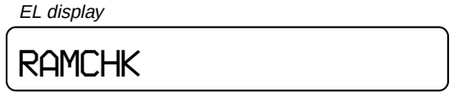
1. Enter the test mode.
2. Press the ▶ key to display major item, and press the ▲/▼ key to select the “OTHERS”.

EL display



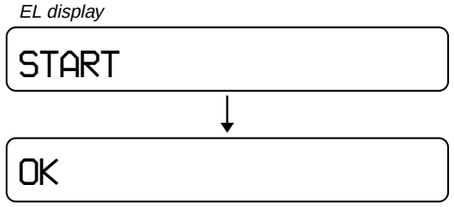
3. Press the ▶ key to display minor item, and press the ▲/▼ key to select the “RAMCHK”.

EL display



4. Press the ▶II key, “START” is displayed and SDRAM is checked. (This operation takes about 20 seconds)
   Then “OK” or “NG” is displayed automatically.

EL display



5. Press the BACK key, return to minor item selection screen.

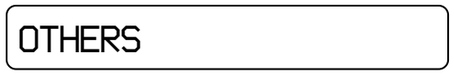
5-3-14. Hard disk drive serial No. display

Serial No. of hard disk drive is displayed.

Checking method:

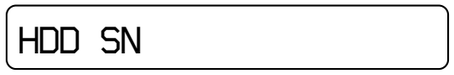
1. Enter the test mode.
2. Press the ▶ key to display major item, and press the ▲/▼ key to select the “OTHERS”.

EL display



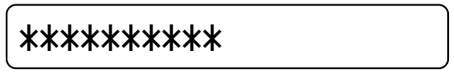
3. Press the ▶ key to display minor item, and press the ▲/▼ key to select the “HDD SN”.

EL display



4. Press the ▶II key, Serial No. of hard disk drive or “NG” is displayed.

EL display

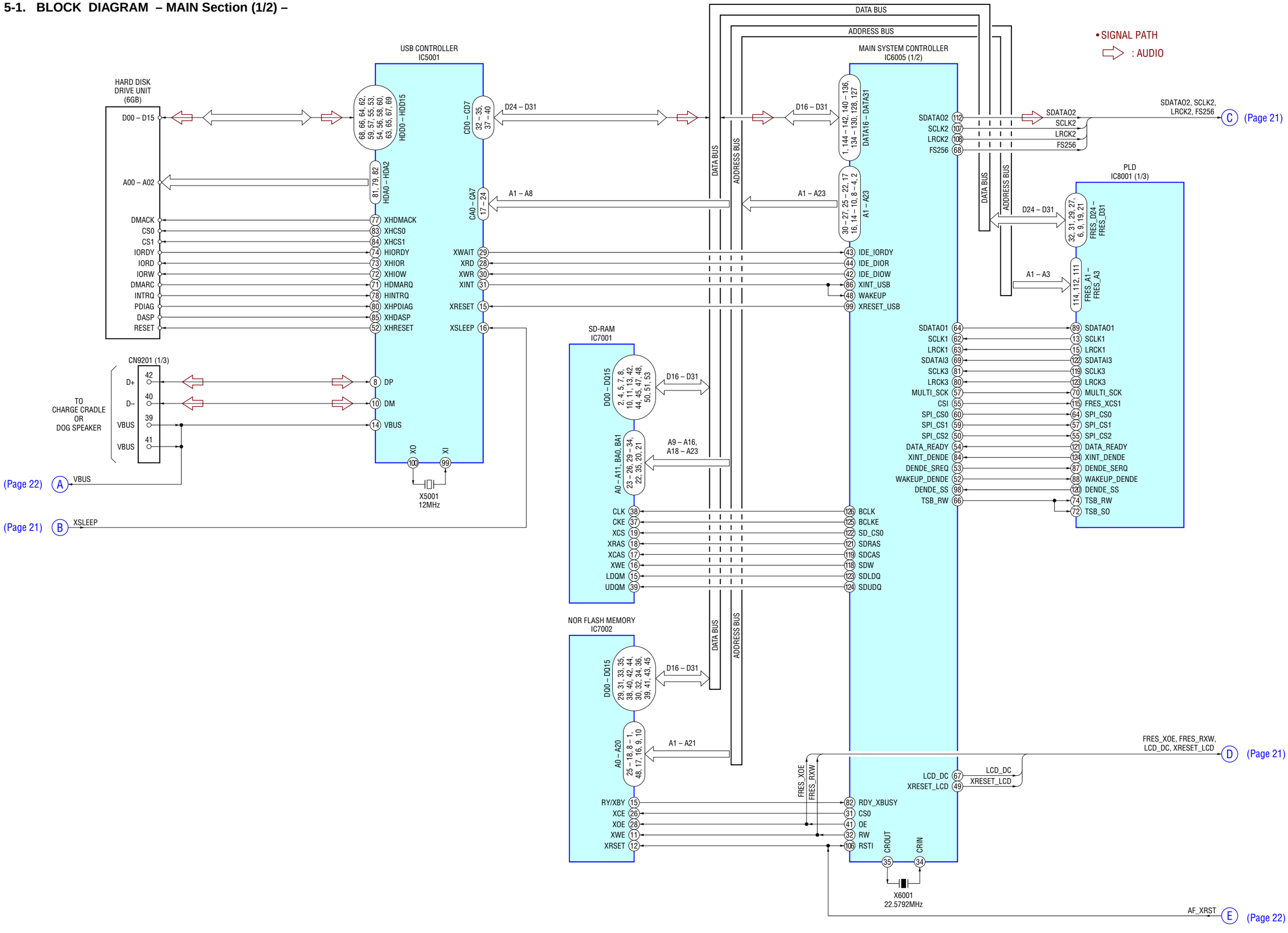


****: Serial No. of hard disk drive (20 digits or less)*

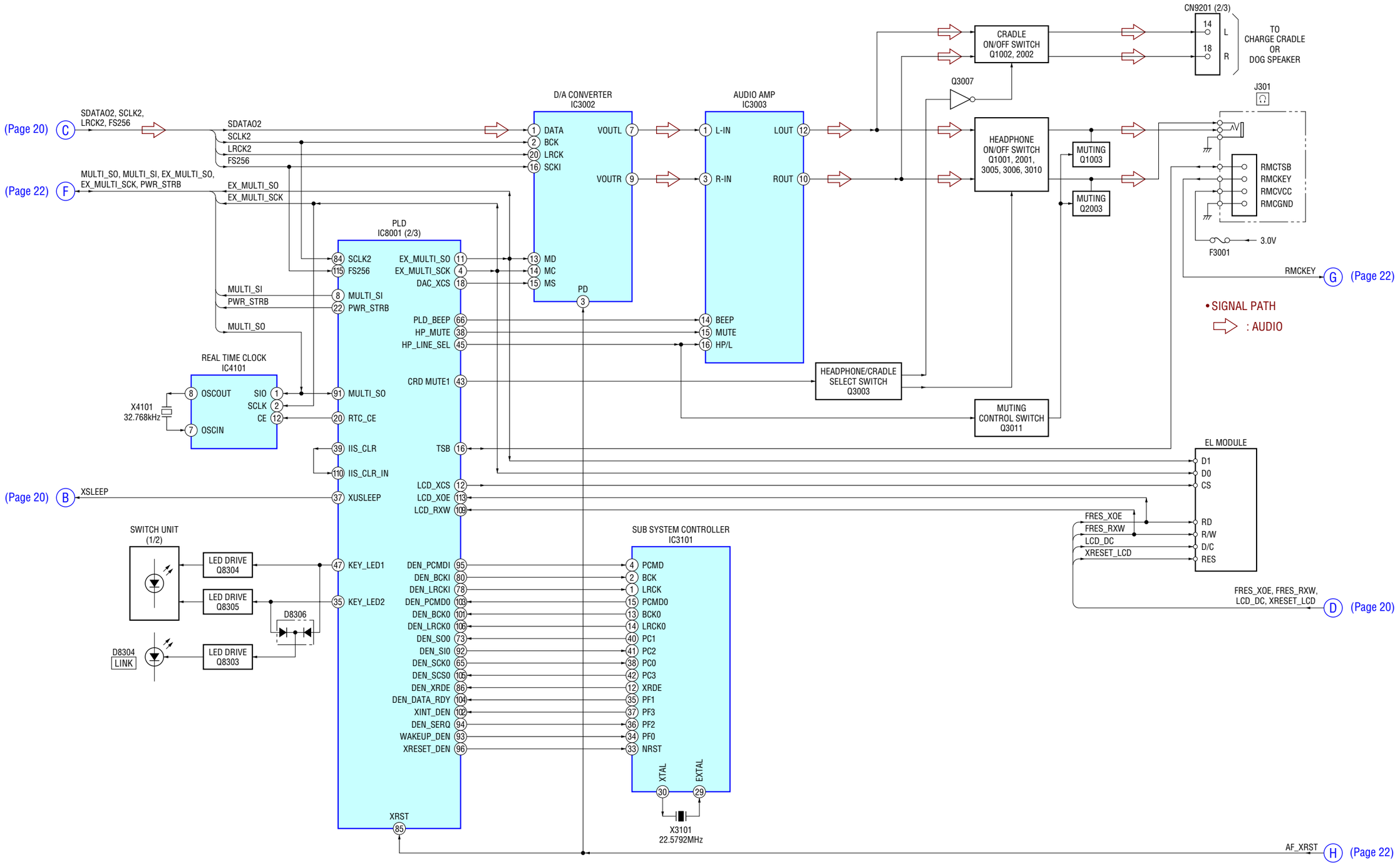
5. Press the BACK key, return to minor item selection screen.

SECTION 5
DIAGRAMS

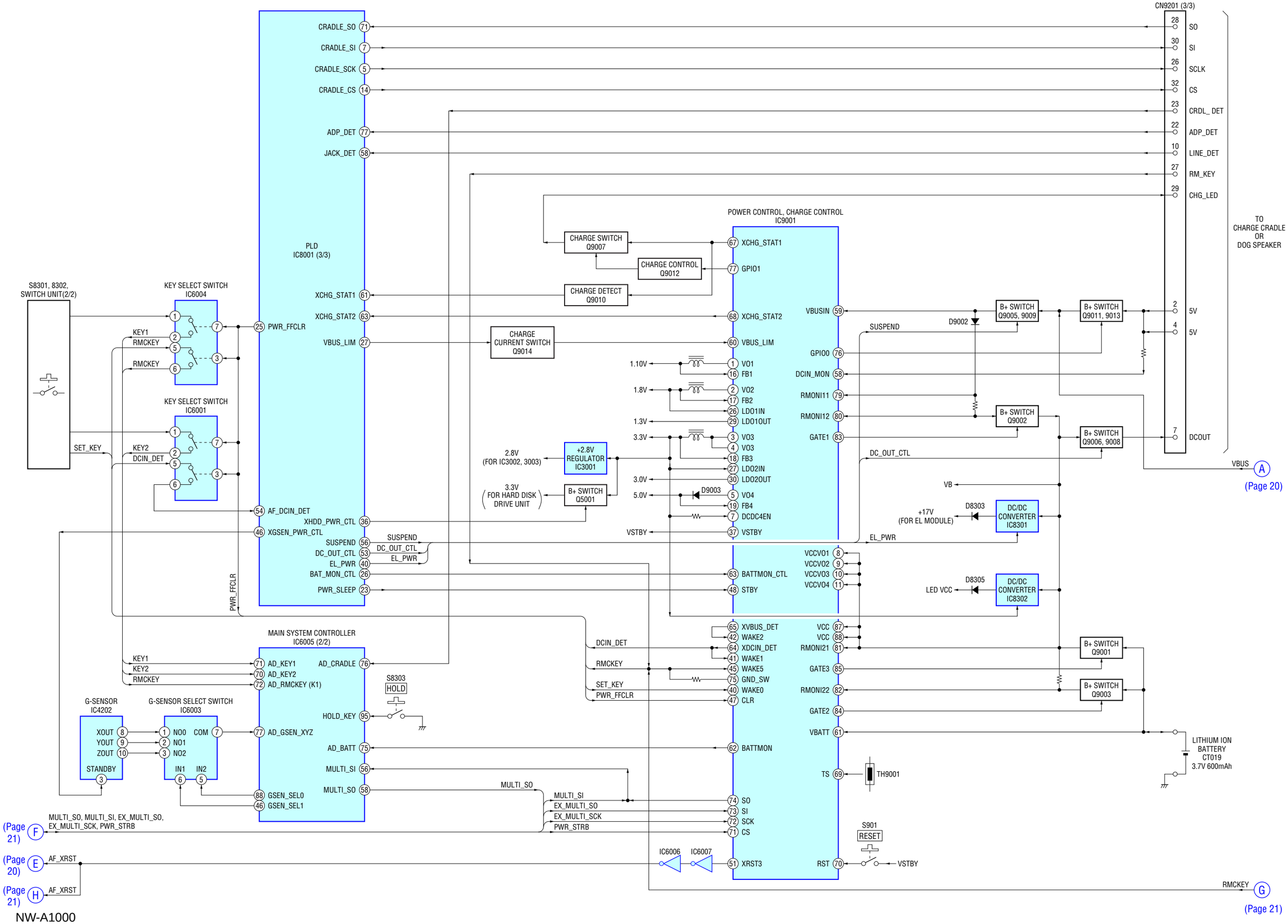
5-1. BLOCK DIAGRAM – MAIN Section (1/2) –



5-2. BLOCK DIAGRAM – MAIN Section (2/2) –



5-3. BLOCK DIAGRAM – POWER SUPPLY Section –



• Note for Printed Wiring Boards and Schematic Diagrams

Note on Printed Wiring Board:

- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- △ : internal component.
- ▬ : Pattern from the side which enables seeing.

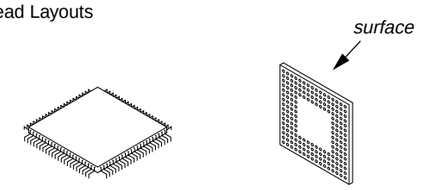
(The other layers' patterns are not indicated.)

Caution:	
Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

- MAIN board is multi-layer printed board. However, the patterns of intermediate-layer have not been included in diagram.

* Replacement of IC3101, 5001, 6005, 7001, 8001 and 9001 used in this set requires a special tool.

- Lead Layouts



Lead layout of conventional IC CSP (chip size package)

Note on Schematic Diagram:

- All capacitors are in µF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

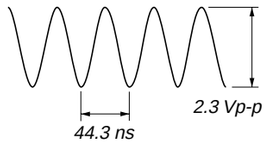
- ▬ : B+ Line.
- Power voltage is dc 4.2 V and fed with regulated dc power supply from TP9001 and TP9002 on the MAIN board.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark : PLAYBACK
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : AUDIO

* Replacement of IC3101, 5001, 6005, 7001, 8001 and 9001 used in this set requires a special tool.

- The voltage and waveform of CSP (chip size package) cannot be measured, because its lead layout is different from that of conventional IC.

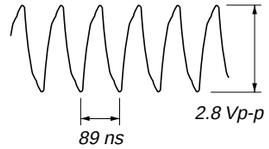
• Waveforms

① X6001



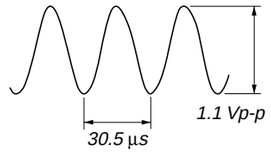
1 V/DIV, 20 ns/DIV

⑦ X5001



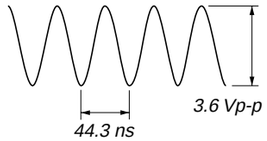
1 V/DIV, 50 ns/DIV

② IC4101 ⑧ (OSCOUT)



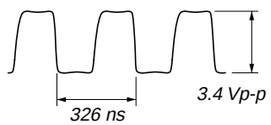
500 mV/DIV, 10 µs/DIV

③ X3101



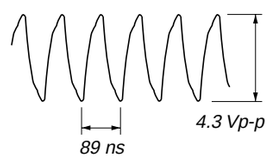
2 V/DIV, 20 ns/DIV

④ IC3002 ② (BCK)



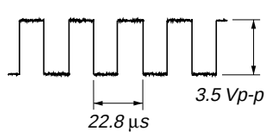
2 V/DIV, 100 ns/DIV

⑤ IC3002 ⑯ (SCKI)



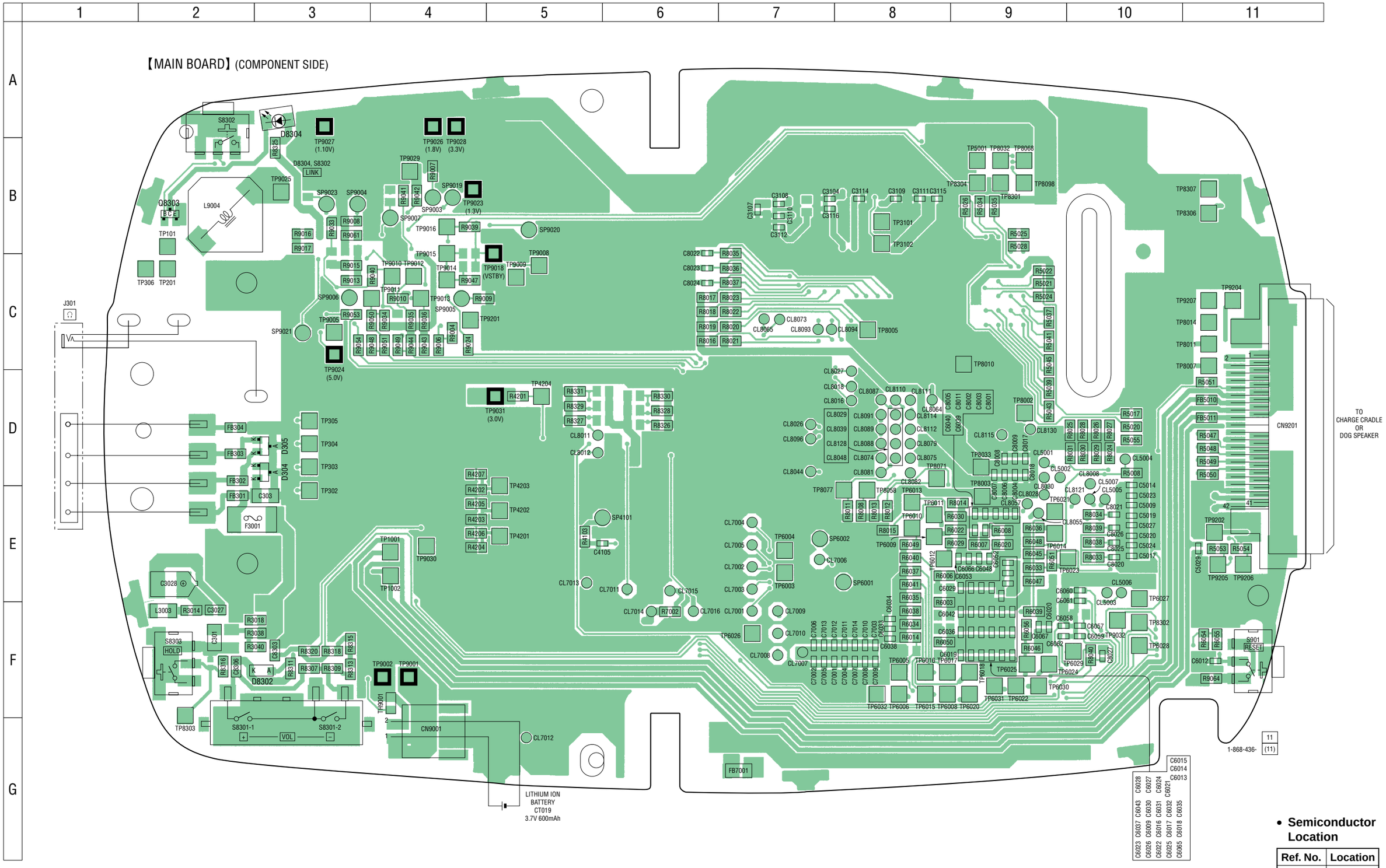
2 V/DIV, 50 ns/DIV

⑥ IC3002 ⑳ (LRCK)



2 V/DIV, 10 µs/DIV

5-4. PRINTED WIRING BOARD – MAIN Board (Component Side) – :Uses unleaded solder.

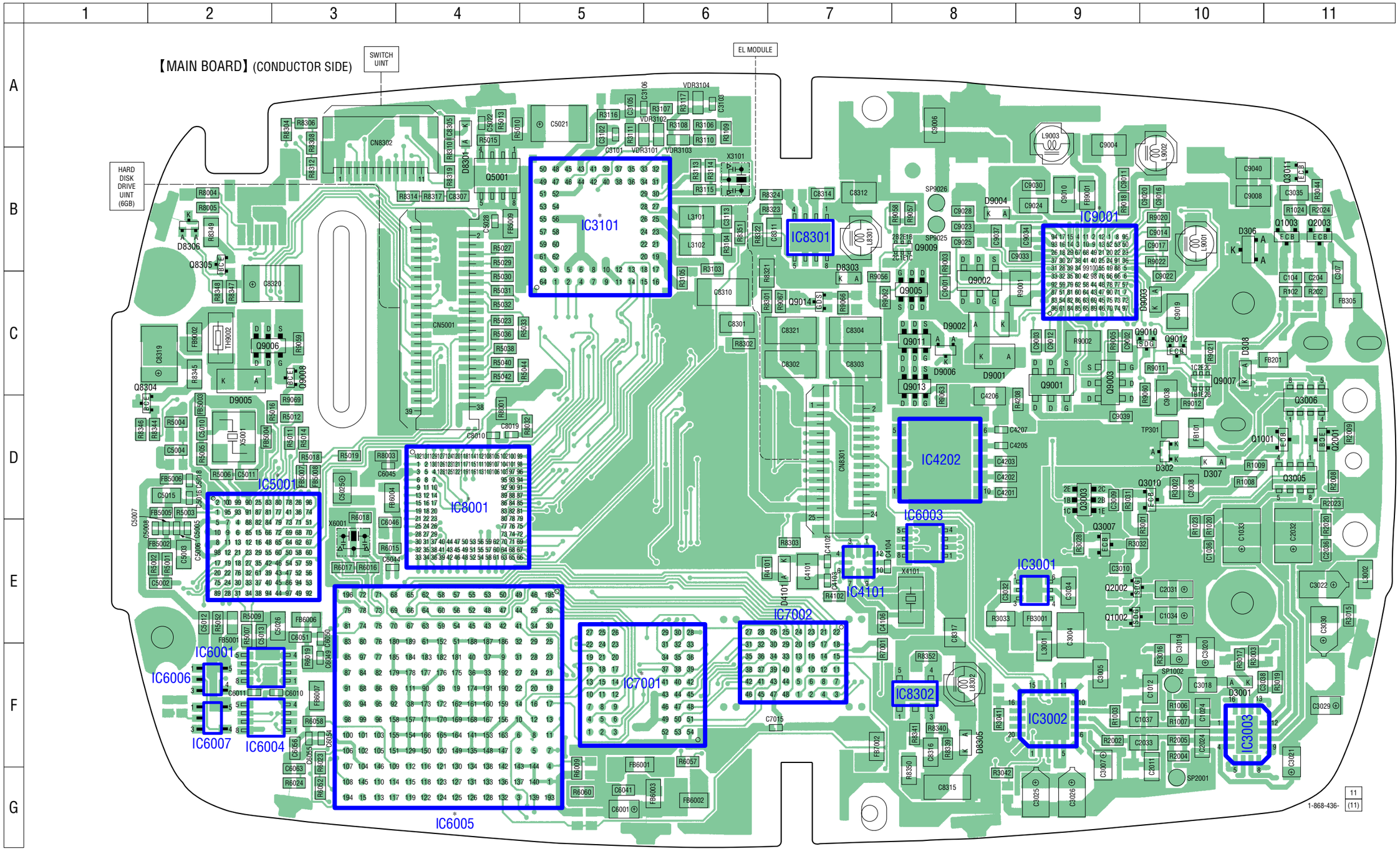


- **Semiconductor Location**

Ref. No.	Location
D304	D-3
D305	D-3
D8302	F-3
D8304	A-3
Q8303	B-2

Note: CN9201 cannot exchange with single. When CN9201 is damaged, exchange the entire mounted board.

5-5. PRINTED WIRING BOARD – MAIN Board (Conductor Side) – :Uses unleaded solder.



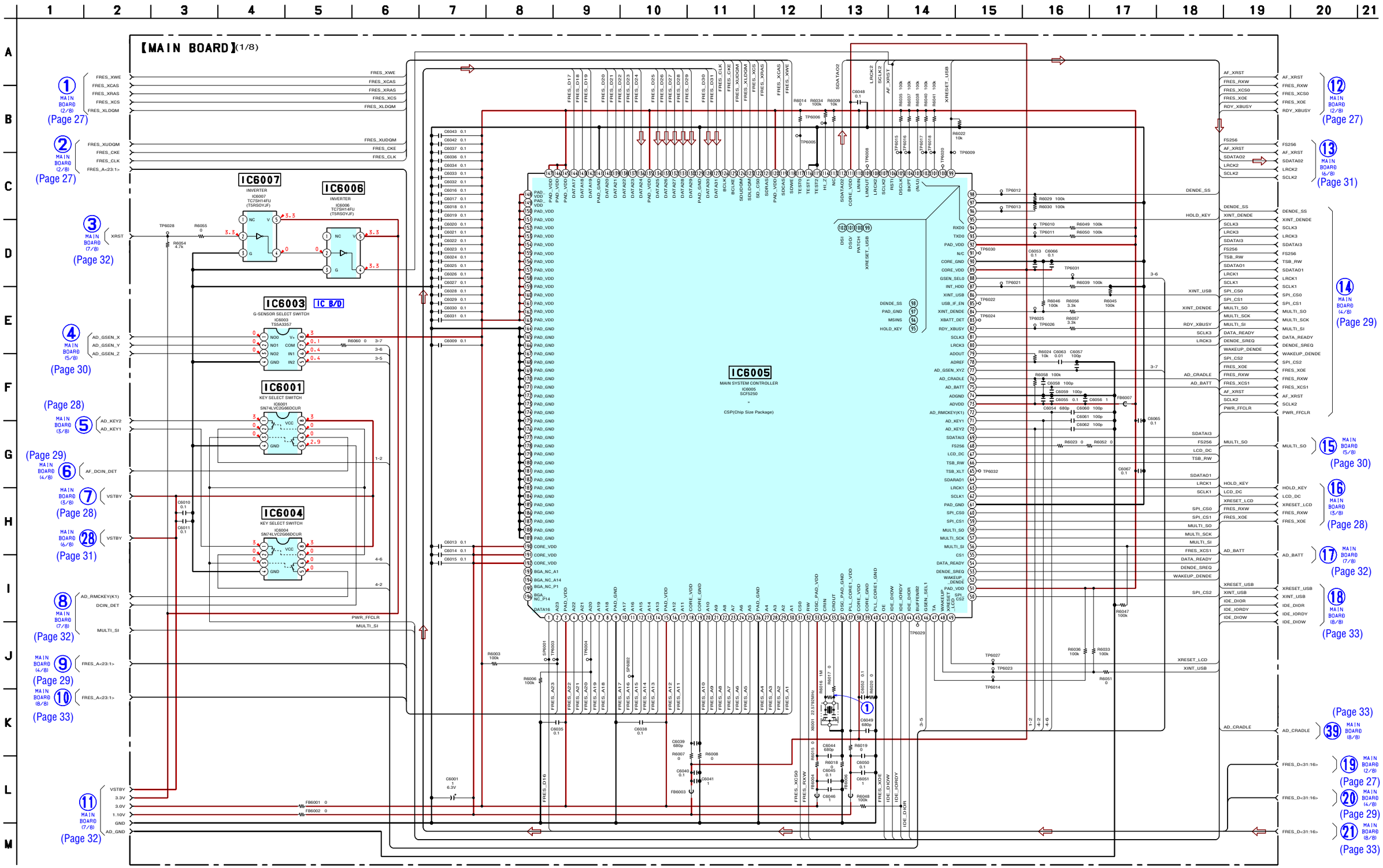
- **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D302	D-10	D8303	C-7	D9005	C-2	IC4101	E-7	IC9001	C-9	IC6006	F-2	Q2003	B-11	Q5001	B-4	Q9006	C-2	Q9013	C-8
D306	B-10	D8305	F-8	D9006	C-8	IC4202	D-8			IC6007	F-2	Q3003	D-9	Q8304	D-1	Q9007	C-10	Q9014	C-7
D307	D-10	D8306	B-2			IC5001	E-2	Q1001	D-11	IC7001	F-5	Q3005	D-11	Q8305	B-2	Q9008	C-3		
D308	C-10	D9001	C-8	IC3001	E-9	IC6001	F-2	Q1002	E-9	IC7002	F-7	Q3006	D-11	Q9001	C-9	Q9009	B-8		
D3001	F-10	D9002	C-8	IC3002	F-9	IC6003	E-8	Q1003	B-11	IC8001	D-4	Q3007	E-9	Q9002	C-8	Q9010	C-10		
D4101	E-7	D9003	C-10	IC3003	F-10	IC6004	F-2	Q2001	D-11	IC8301	B-7	Q3010	D-10	Q9003	C-9	Q9011	C-8		
D8301	A-4	D9004	B-8	IC3101	B-5	IC6005	F-4	Q2002	E-9	IC8302	F-8	Q3011	B-11	Q9005	C-8	Q9012	C-10		

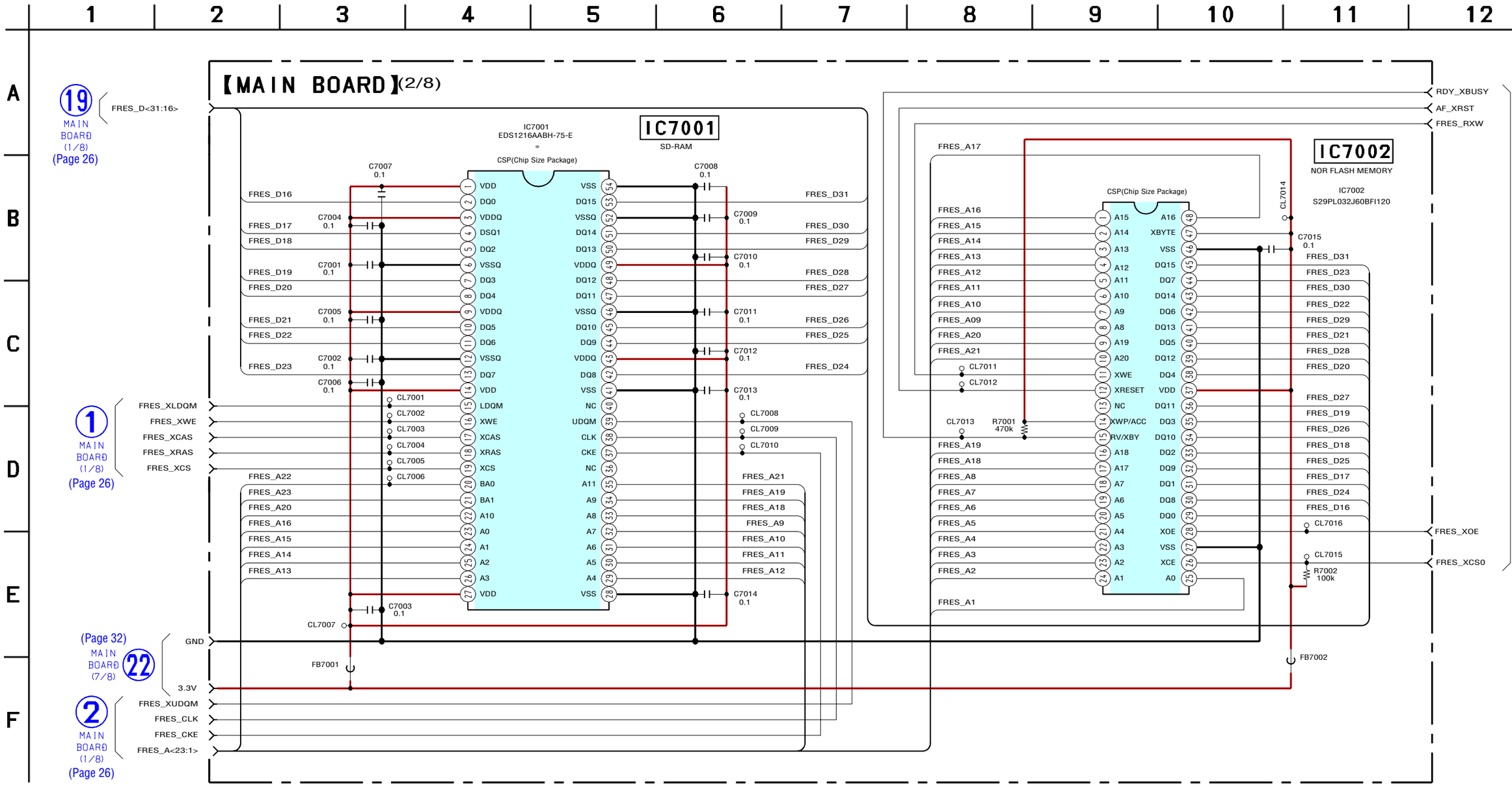
Note: IC7002 cannot exchange with single. When IC7002 is damaged, exchange the entire mounted board.

5-6. SCHEMATIC DIAGRAM – MAIN Board (1/8) –

• See page 23 for Waveforms. • See page 34 for IC Block Diagrams. • See page 36 for IC Pin Function Description.



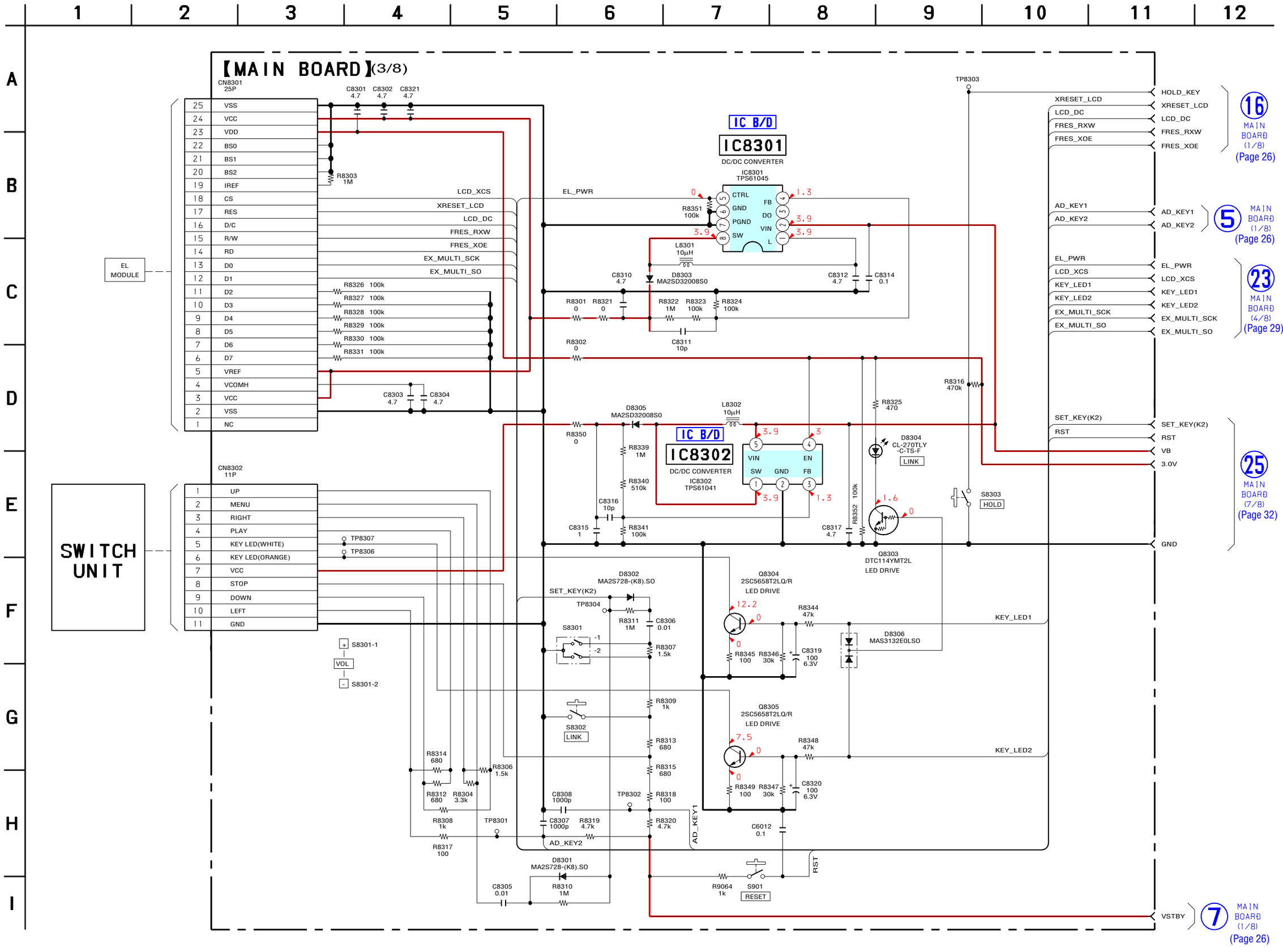
5-7. SCHEMATIC DIAGRAM – MAIN Board (2/8) –



Note: IC7002 cannot exchange with single. When IC7002 is damaged, exchange the entire mounted board.

5-8. SCHEMATIC DIAGRAM – MAIN Board (3/8) –

• See page 34 for IC Block Diagrams.



5-9. SCHEMATIC DIAGRAM – MAIN Board (4/8) –

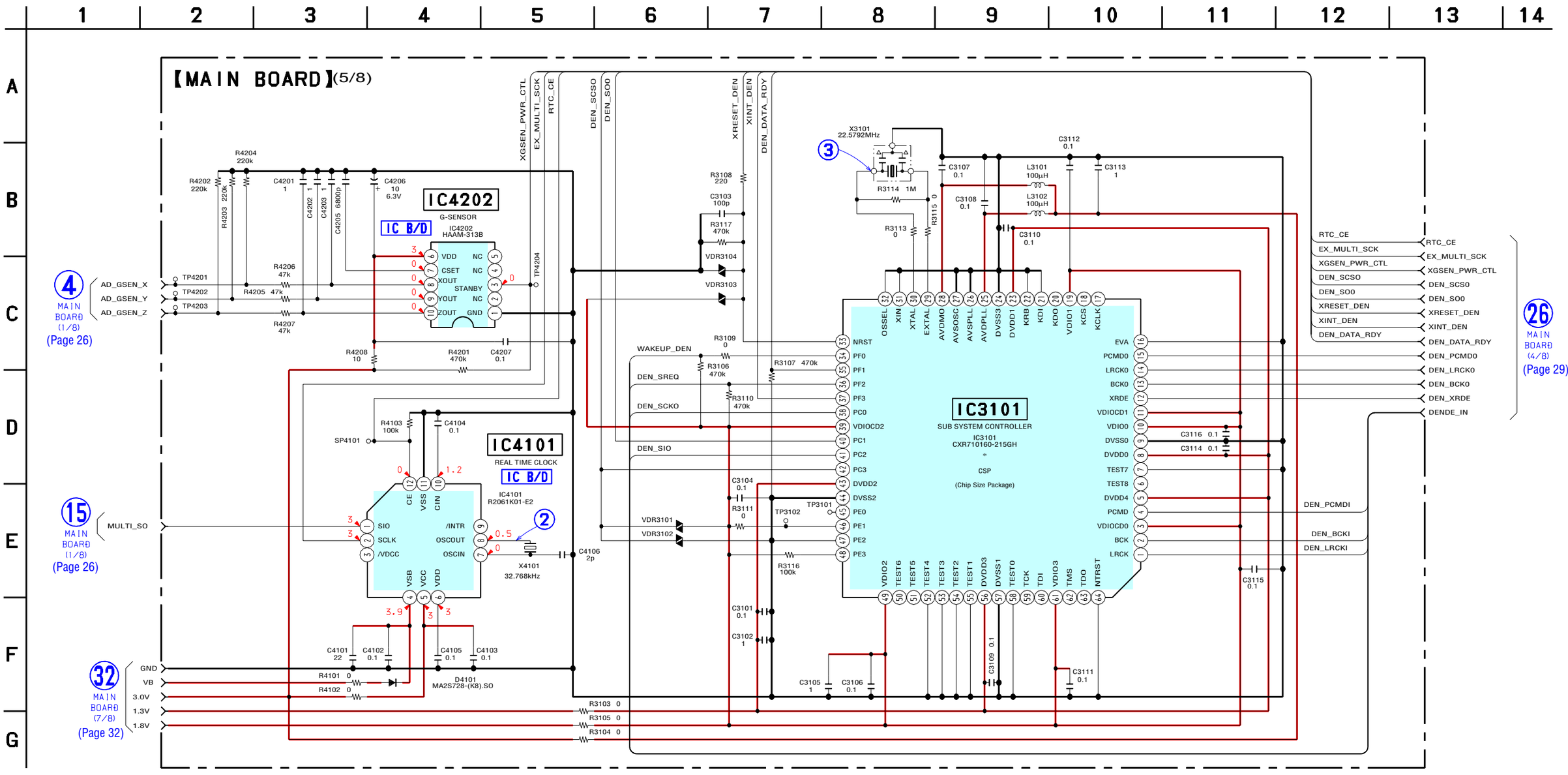
• See page 36 for IC Pin Function Description.

【MAIN BOARD】(4/8)

IC8001
PLD
IC8001
LC4128ZC
-75MN132C
*
CSP(Chip Size Package)

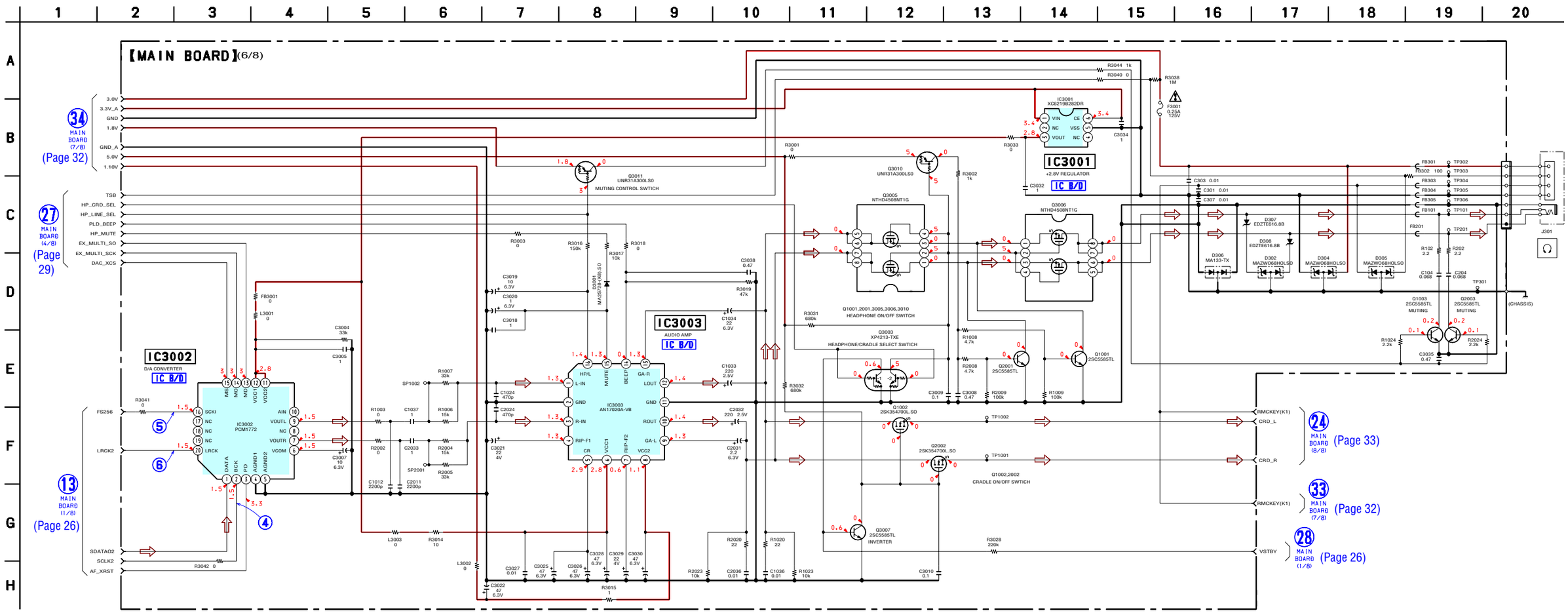
5-10. SCHEMATIC DIAGRAM – MAIN Board (5/8) –

• See page 23 for Waveforms. • See page 34 for IC Block Diagrams. • See page 36 for IC Pin Function Description.



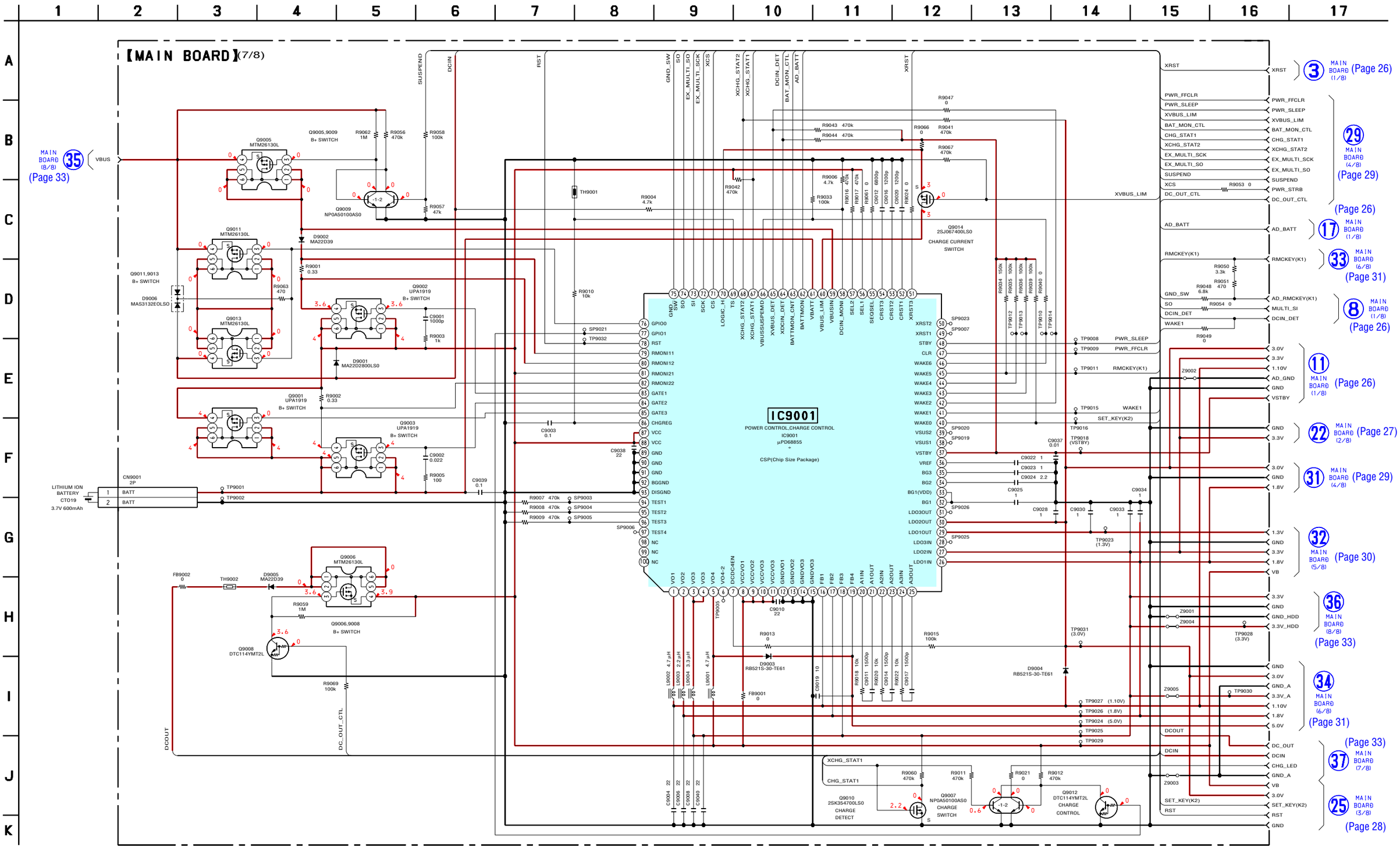
5-11. SCHEMATIC DIAGRAM – MAIN Board (6/8) –

• See page 23 for Waveforms. • See page 34 for IC Block Diagrams.



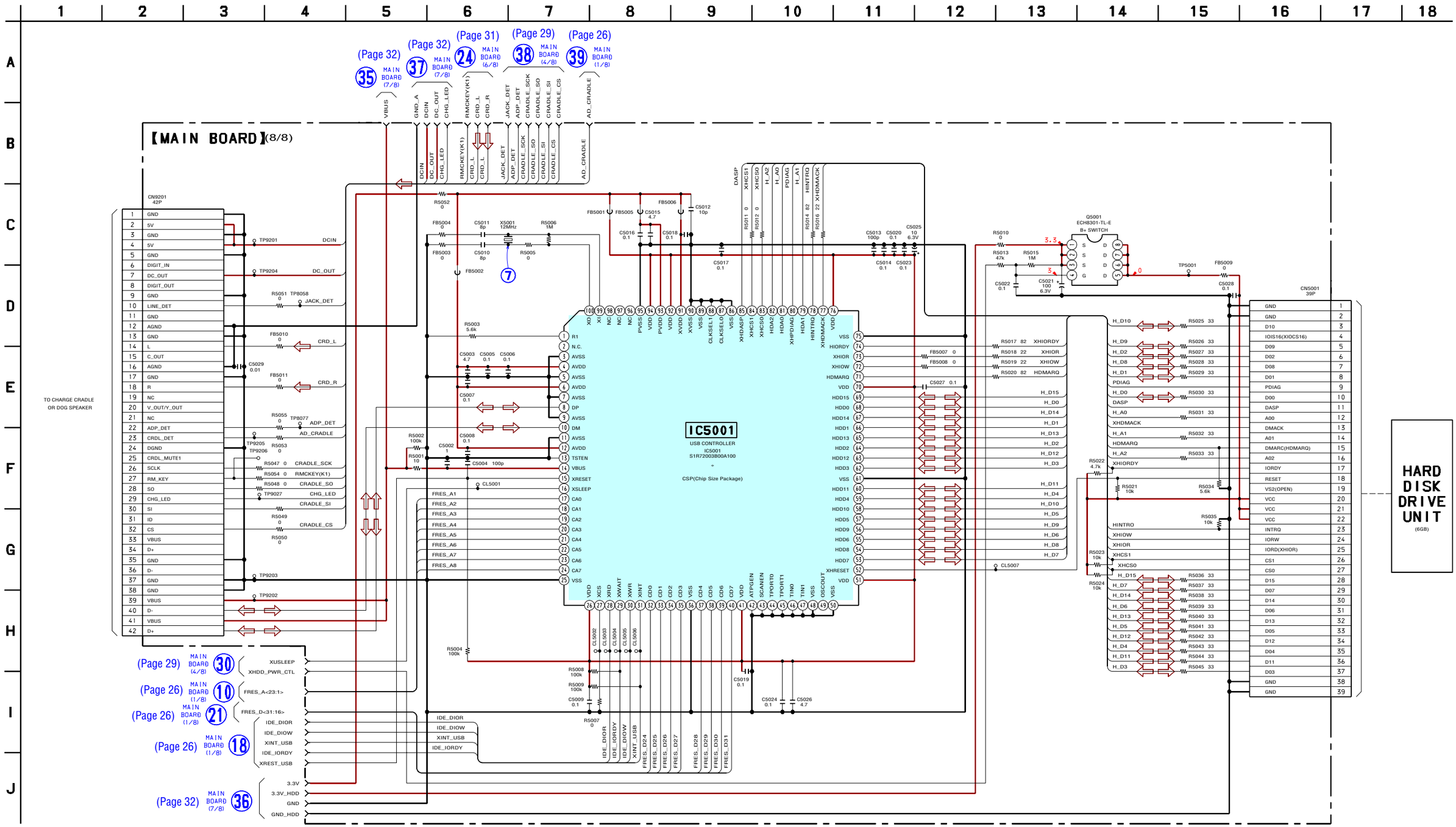
5-12. SCHEMATIC DIAGRAM – MAIN Board (7/8) –

• See page 36 for IC Pin Function Description.



5-13. SCHEMATIC DIAGRAM – MAIN Board (8/8) –

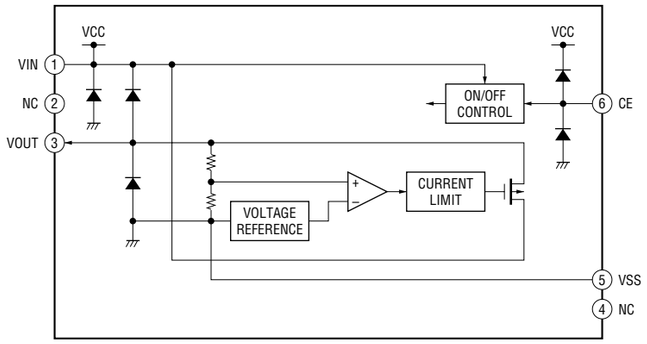
• See page 23 for Waveforms. • See page 36 for IC Pin Function Description.



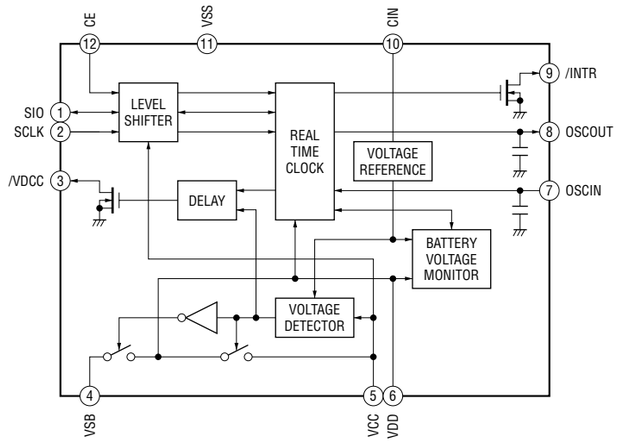
Note: CN9201 cannot exchange with single. When CN9201 is damaged, exchange the entire mounted board.

- **IC Block Diagrams**

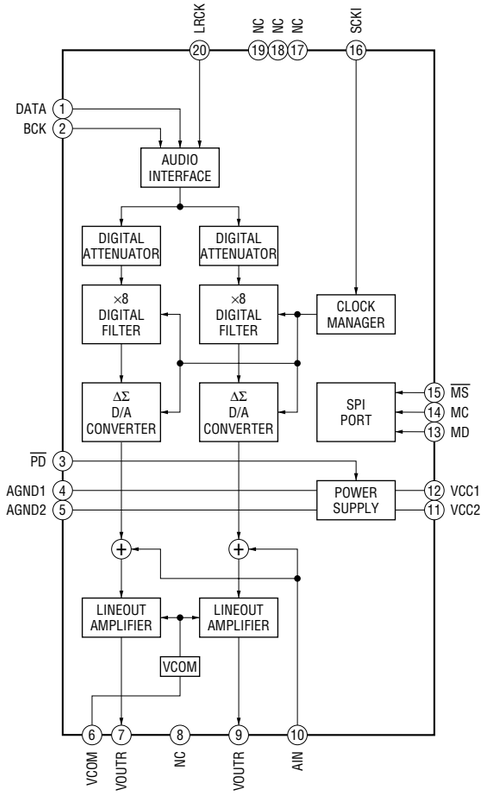
IC3001 XC6219B302DR



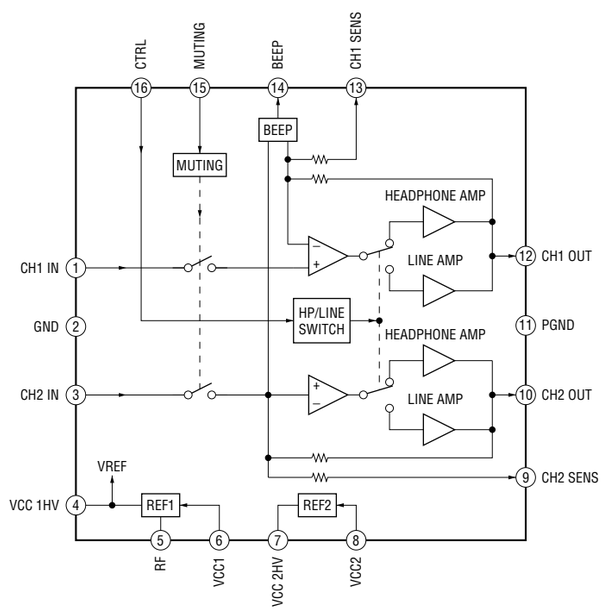
IC4101 R2061K01-E2



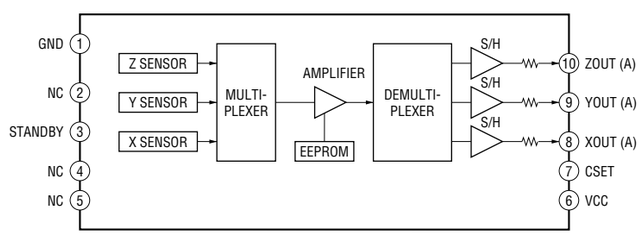
IC3002 PCM1772RGAR



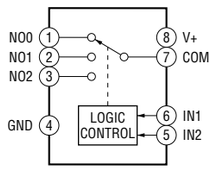
IC3003 AN17020A-VB



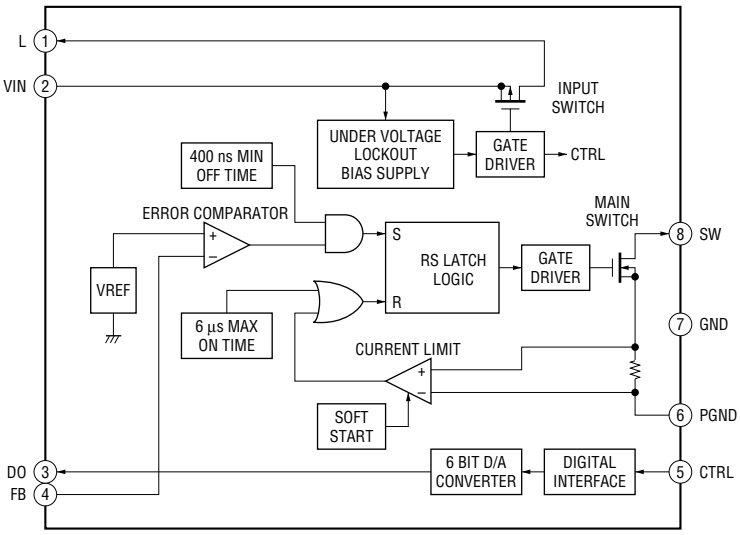
IC4202 HAAM-313B



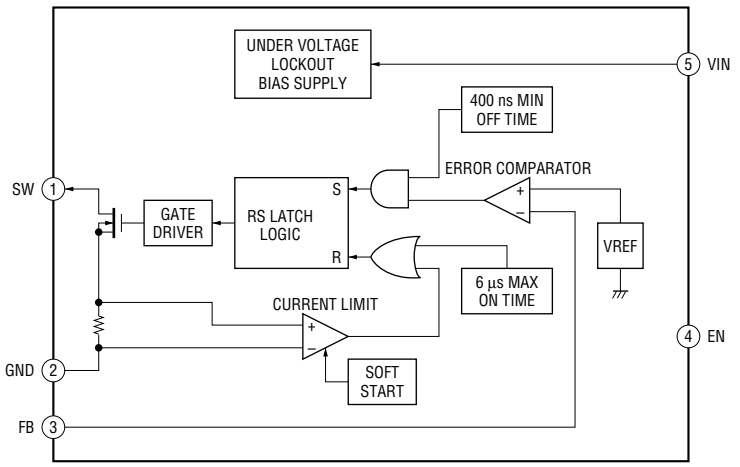
IC6003 TS5A3357DCUR



IC8301 TPS61045DRBR



IC8302 TPS61041DBVR



- **IC Pin Function Description**

IC3101 CXR710160-215GH (SUB SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	LRCK	I	L/R sampling clock signal input from the PLD
2	BCK	I	Bit clock signal input from the PLD
3	VDIOCD0	-	Power supply terminal (+1.8V) (for CD interface and I/O)
4	PCMD	I	Audio data input from the PLD
5	DVDD4	-	Power supply terminal (+1.3V)
6	TEST8	O	Output terminal for the test
7	TEST7	I	Input terminal for the test
8	DVDD0	-	Power supply terminal (+1.3V)
9	DVSS0	-	Ground terminal
10	VDIO0	-	Power supply terminal (+1.8V) (for I/O)
11	VDIOCD1	-	Power supply terminal (+1.8V) (for CD interface and I/O)
12	XRDE	I	Ready/busy selection signal input from the PLD "L": ready, "H": busy
13	BCK0	O	Bit clock signal output to the PLD
14	LRCK0	O	L/R sampling clock signal output to the PLD
15	PCMD0	O	Audio data output to the PLD
16	EVA	I	EVA mode selection signal input terminal
17	KCLK	O	Serial data transfer clock signal output terminal Not used
18	KCS	O	Chip select signal output terminal Not used
19	VDIO01	-	Power supply terminal (+1.8V) (for I/O)
20	KDO	O	Serial data output terminal Not used
21	KDI	I	Serial data input terminal Not used
22	KRB	O	Ready/busy selection signal output terminal Not used
23	DVDD1	-	Power supply terminal (+1.3V)
24	DVSS3	-	Ground terminal
25	AVDPLL	-	Power supply terminal (+3V) (for PLL)
26	AVSPLL	-	Ground terminal (for PLL)
27	AVSOSC	-	Ground terminal (for OSC)
28	AVDMO	-	Power supply terminal (+3V) (for OSC)
29	EXTAL	I	Main system clock input terminal (22.5792 MHz)
30	XTAL	O	Main system clock output terminal (22.5792 MHz)
31	XIN	I	External clock input terminal Not used
32	OSSEL	I	External clock control signal input terminal Not used
33	NRST	I	Reset signal input from the PLD "L": reset
34	PF0	I	Wake-up signal input from the PLD
35	PF1	O	Ready signal output to the PLD
36	PF2	I	Interrupt request signal input from the PLD
37	PF3	O	Interrupt request signal output to the PLD
38	PC0	I	Serial data transfer clock signal input from the PLD
39	VDIOCD2	-	Power supply terminal (+1.8V) (for CD interface and I/O)
40	PC1	O	Serial data output to the PLD
41	PC2	I	Serial data input from the PLD
42	PC3	O	Chip select signal output to the PLD
43	DVDD2	-	Power supply terminal (+1.3V)
44	DVSS2	-	Ground terminal
45 to 48	PE0 to PE3	I/O	Not used
49	VDIO2	-	Power supply terminal (+1.8V) (for I/O)

Pin No.	Pin Name	I/O	Description
50, 51	TEST6, TEST5	O	Output terminal for the test
52 to 55	TEST4 to TEST1	I	Input terminal for the test
56	DVDD3	-	Power supply terminal (+1.3V)
57	DVSS1	-	Ground terminal
58	TEST0	I	Input terminal for the test
59	TCK	I	Clock signal input terminal (for JTAG) Not used
60	TDI	I	Data input terminal (for JTAG) Not used
61	VDIO3	-	Power supply terminal (+1.8V) (for I/O)
62	TMS	I	Mode selection signal input terminal (for JTAG) Not used
63	TDO	O	Data output terminal (for JTAG) Not used
64	NTRST	I	Reset signal input terminal (for JTAG) Not used

IC5001 S1R72003BOOA100 (USB CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	R1	I/O	Internal operation setting terminal
2	N.C.	-	Not used
3	AVSS	-	Ground terminal (analog system)
4	AVDD	-	Power supply terminal (+3.3V) (analog system)
5	AVSS	-	Ground terminal (analog system)
6	AVDD	-	Power supply terminal (+3.3V) (analog system)
7	AVSS	-	Ground terminal (analog system)
8	DP	I/O	USB data (+) input/output terminal
9	AVSS	-	Ground terminal (analog system)
10	DM	I/O	USB data (-) input/output terminal
11	AVSS	-	Ground terminal (analog system)
12	AVDD	-	Power supply terminal (+3.3V) (analog system)
13	TSTEN	I	Input terminal for the test mode setting
14	VBUS	I	USB bus detection signal input terminal
15	XRESET	I	Reset signal input from the power control "L": reset
16	XSLEEP	I	Sleep signal input from the PLD "L": sleep mode
17 to 24	CA0 to CA7	I	Address signal input from the main system controller
25	VSS	-	Ground terminal (logic system)
26	VDD	-	Power supply terminal (+3.3V) (logic system)
27	XCS	I	Chip select signal input terminal Not used
28	XRD	I	Read signal input from the main system controller
29	XWAIT	O	Wait signal output to the main system controller
30	XWR	I	Write signal input from the main system controller
31	XINT	O	Interrupt request signal output to the main system controller
32 to 35	CD0 to CD3	I/O	Two-way data bus with the main system controller, SD-RAM, NOR flash memory and PLD
36	VSS	-	Ground terminal (logic system)
37 to 40	CD4 to CD7	I/O	Two-way data bus with the main system controller, SD-RAM, NOR flash memory and PLD
41	VDD	-	Power supply terminal (+3.3V) (logic system)
42	ATPGEN	I	Input terminal for the test mode setting
43	SCANEN	I	Input terminal for the test mode setting
44, 45	TPORT0, TPORT1	I/O	Input/output terminal for the test mode setting
46, 47	TIN0, TIN1	I	Input terminal for the test mode setting
48	VSS	-	Ground terminal (logic system)
49	OSCOUT	O	Clock signal output terminal Not used
50	VSS	-	Ground terminal (logic system)
51	VDD	-	Power supply terminal (+3.3V) (logic system)
52	XHRESET	O	Reset signal output to the hard disk drive unit "L": reset
53 to 60	HDD4 to HDD11	I/O	Two-way data bus with the hard disk drive unit
61	VSS	-	Ground terminal (logic system)
62 to 69	HDD0 to HDD3, HDD12 to HDD15	I/O	Two-way data bus with the hard disk drive unit
70	VDD	-	Power supply terminal (+3.3V) (logic system)
71	HDMARQ	I	DMA request signal input from the hard disk drive unit
72	XHIOW	O	Write signal output to the hard disk drive unit
73	XHIOR	O	Read signal output to the hard disk drive unit

Pin No.	Pin Name	I/O	Description
74	HIORDY	I	Wait signal input from the hard disk drive unit
75	VSS	-	Ground terminal (logic system)
76	VDD	-	Power supply terminal (+3.3V) (logic system)
77	XHDMACK	O	DMA acknowledge signal output to the hard disk drive unit
78	HINTRQ	I	Interrupt request signal input from the hard disk drive unit
79	HA1	O	Address signal output to the hard disk drive unit
80	XHPDIAG	I	Diagnosis sequence compression signal input from the hard disk drive unit
81, 82	HA0, HA2	O	Address signal output to the hard disk drive unit
83, 84	HCS0, HCS1	O	Chip select signal output to the hard disk drive unit
85	XHDASP	I	Drive valid signal and slave drive detection signal input from the hard disk drive unit
86	VSS	-	Ground terminal (logic system)
87, 88	CLKSEL0, CLKSEL1	I	Input terminal for oscillation frequency setting Fixed at 12 MHz in this set
89	VSS	-	Ground terminal (logic system)
90	XVSS	-	Ground terminal (logic system)
91	XVDD	-	Power supply terminal (+3.3V) (logic system)
92	VDD	-	Power supply terminal (+3.3V) (logic system)
93	PVDD	-	Power supply terminal (+3.3V) (for PLL)
94	VDD	-	Power supply terminal (+3.3V) (logic system)
95	PVSS	-	Ground terminal (for PLL)
96 to 98	NC	-	Not used
99	XI	I	Sub system clock input terminal (12 MHz)
100	XO	O	Sub system clock output terminal (12 MHz)

IC6005 SCF5250 (MAIN SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	DATA16	I/O	Two-way data bus with the SD-RAM and NOR flash memory
2	A23	O	Address signal output to the SD-RAM
3	PAD_VDD	-	Power supply terminal (+3V) (for I/O)
4	A22	O	Address signal output to the SD-RAM
5 to 8	A21 to A18	O	Address signal output to the SD-RAM and NOR flash memory
9	PAD_GND	-	Ground terminal (for I/O)
10	A17	O	Address signal output to the NOR flash memory
11 to 14	A16 to A13	O	Address signal output to the SD-RAM and NOR flash memory
15	PAD_VDD	-	Power supply terminal (+3V) (for I/O)
16, 17	A12, A11	O	Address signal output to the SD-RAM and NOR flash memory
18	CORE_VDD	-	Power supply terminal (+1.1V) (for core)
19	CORE_GND	-	Ground terminal (for core)
20, 21	A10, A9	O	Address signal output to the SD-RAM and NOR flash memory
22 to 25	A8 to A5	O	Address signal output to the USB controller and NOR flash memory
26	PAD_GND	-	Ground terminal (for I/O)
27	A4	O	Address signal output to the USB controller and NOR flash memory
28 to 30	A3 to A1	O	Address signal output to the USB controller, NOR flash memory and PLD
31	CS0	O	Chip select signal output to the NOR flash memory
32	XRW	O	Read/write control signal output to the NOR flash memory, PLD and EL module
33	OSC_PAD_VDD	-	Power supply terminal (+3V) (for OSC)
34	CRIN	I	Main system clock input terminal (22.5792 MHz)
35	CROUT	O	Main system clock output terminal (22.5792 MHz)
36	OSC_PAD_GND	-	Ground terminal (for OSC)
37	PLL_CORE1_VDD	-	Power supply terminal (+1.1V) (for PLL)
38	CORE_VDD	-	Power supply terminal (+1.1V) (for core)
39	CORE_GND	-	Ground terminal (for core)
40	PLL_CORE1_GND	-	Ground terminal (for PLL)
41	OE	O	Read signal output to the NOR flash memory, PLD and EL module
42	IDE_DIOW	O	Write signal output to the USB controller
43	IDE_IOPDY	I	Wait signal input from the USB controller
44	IDE_DIOR	O	Read signal output to the USB controller
45	BUFFENB2	O	BUFFENB signal output terminal Not used
46	GSEN_SEL1	O	G-sensor axis selection signal output terminal
47	TA	I	Access complete signal input terminal Not used
48	WAKEUP	I	Wake-up signal input from the USB controller
49	XRESET_LCD	O	Reset signal output to the EL module "L": reset
50	SPI_CS2	O	Chip select signal output for serial control to the PLD
51	PAD_VDD	-	Power supply terminal (+3V) (for I/O)
52	WAKEUP_DENDE	O	Wake-up signal output to the PLD
53	DENDE_SREQ	O	Request signal output to the PLD
54	DATA_READY	I	Ready signal input from the PLD
55	CS1	O	Chip select signal output to the PLD
56	MULTI_SI	I	Serial data input from the PLD and power control
57	MULTI_SCK	O	Serial data transfer clock signal output to the PLD
58	MULTI_SO	O	Serial data output to the real time clock and PLD
59, 60	SPI_CS1, SPI_CS0	O	Chip select signal output for serial control to the PLD

Pin No.	Pin Name	I/O	Description
61	PAD_GND	-	Ground terminal (for I/O)
62	SCLK1	I	Bit clock signal input from the PLD
63	LRCK1	I	L/R sampling clock signal input from the PLD
64	SDATAO1	O	Audio data output to the PLD
65	TSB_XLT	O	TSB latch signal output terminal Not used
66	TSB_RW	O	TSB read/write control signal output to the PLD
67	LCD_DC	O	Resister selection signal output to the EL module
68	FS256	O	11.2896 MHz clock signal output to the D/A converter and PLD
69	SDATAI3	I	Audio data input from the PLD
70, 71	AD_KEY2, AD_KEY1	I	Set key input terminal (A/D input)
72	AD_RMCKEY (K1)	I	External key input terminal (A/D input)
73	ADVDD	-	Power supply terminal (+3V) (for A/D converter)
74	AD_GND	-	Ground terminal (for A/D converter)
75	AD_BATT	I	Battery voltage monitor input from the power control
76	AD_CRADLE	I	Cradle detection signal input terminal
77	AD_GSEN_XYZ	I	G-sensor input terminal
78	ADREF	-	Reference voltage terminal (for A/D converter)
79	ADOUT	-	Reference voltage terminal (for A/D converter)
80	LRCK3	I	L/R sampling clock signal input from the PLD
81	SCLK3	I	Bit clock signal input from the PLD
82	RDY_XBUSY	I	Ready/busy selection signal input from the NOR flash memory "L": busy, "H": ready
83	XBATT_DET	I	Battery insert detection signal input terminal Not used
84	XINT_DENDE	I	Interrupt request signal input from the PLD
85	USB _IF_EN	O	USB interface enable signal output terminal Not used
86	XINT_USB	I	Interrupt request signal input from the USB controller
87	XINT_HDD	I	Interrupt request signal input from the hard disk drive Not used
88	GSEN_SEL2	O	G-sensor axis selection signal output terminal
89	CORE_VDD	-	Power supply terminal (+1.1V) (for core)
90	CORE_GND	-	Ground terminal (for core)
91	N/C	I	Not used
92	PAD_VDD	-	Power supply terminal (+3V) (for I/O)
93	TCXD0	O	RS232C output terminal for external monitor Not used
94	RXD0	I	RS232C input terminal for external monitor Not used
95	HOLD_KEY	I	HOLD key input terminal
96	MSINS	I	Memory stick insert detection signal input terminal Not used
97	PAD_GND	-	Ground terminal (for I/O)
98	DENDE_SS	I	Interrupt permission signal input from the PLD
99	XRESET_USB	O	Reset signal output to the USB controller "L": reset
100	PSTCLK	O	PSTCLK output terminal Not used
101	DSO	O	DSO output terminal Not used
102	DSI	I	DSI input terminal Not used
103	(N/U)	I	Not used
104	BKPT	I	BKPT input terminal
105	DSCLK	I	DSCLK input terminal Not used
106	RSTI	I	Reset signal input from the power control "L": reset
107	SCLK2	O	Bit clock signal output to the D/A converter
108	LRCK2	O	L/R sampling clock signal output to the D/A converter

Pin No.	Pin Name	I/O	Description
109	LINOUT	O	Not used
110	LININ	I	Not used
111	CORE_VDD	-	Power supply terminal (+1.1V) (for core)
112	SDATAO2	O	Audio data output to the D/A converter
113	NC	I	Not used
114	Hi-Z	-	Not used
115 to 117	TEST0 to TEST2	I	Input terminal for the test mode setting
118	SDW	O	Write enable signal output to the SD-RAM
119	SDCAS	O	Column address signal output to the SD-RAM
120	PAD_VDD	-	Power supply terminal (+3V) (for I/O)
121	SDRAS	O	Row address signal output to the SD-RAM
122	SDCS0	O	Chip select signal output to the SD-RAM
123	SDLDQ	O	Write mask signal output to the SD-RAM (lower byte)
124	SDUDQ	O	Write mask signal output to the SD-RAM (upper byte)
125	BCLKE	O	Clock enable signal output to the SD-RAM
126	BCLK	O	Clock signal output to the SD-RAM
127, 128	DATA31, DATA30	I/O	Two-way data bus with the USB controller, SD-RAM, NOR flash memory and PLD
129	PAD_GND	-	Ground terminal (for I/O)
130 to 134	DATA29 to DATA25	I/O	Two-way data bus with the USB controller, SD-RAM, NOR flash memory and PLD
135	PAD_VDD	-	Power supply terminal (+3V) (for I/O)
136	DATA24	I/O	Two-way data bus with the USB controller, SD-RAM, NOR flash memory and PLD
137 to 140	DATA23 to DATA20	I/O	Two-way data bus with the SD-RAM and NOR flash memory
141	PAD_GND	-	Ground terminal (for I/O)
142 to 144	DATA19 to DATA17	I/O	Two-way data bus with the SD-RAM and NOR flash memory
145 to 163	PAD_VDD	-	Power supply terminal (+3V) (for I/O)
164 to 189	PAD_GND	-	Ground terminal (for I/O)
190 to 192	CORE_VDD	-	Power supply terminal (+1.1V) (for core)
193	BGA_NC_A1	-	Not used
194	BGA_NC_A14	-	Not used
195	BGA_NC_P1	-	Not used
196	BGA_NC_P14	-	Not used

IC8001 LC4128ZC-75MN132C (PLD)

Pin No.	Pin Name	I/O	Description
1	GND	-	Ground terminal
2	TDI	I	Data input terminal (for JTAG) Not used
3	VCCIO0	-	Power supply terminal (+3V) (for I/O)
4	EX_MULTI_SCK	O	Serial data transfer clock signal output to the real time clock and power control
5	CRADLE_SCK	O	Serial data transfer clock signal output to the cradle
6	FRES_D28	I/O	Two-way data bus with the USB controller, main system controller, SD-RAM and NOR flash memory
7	CRADLE_SI	O	Serial data output to the cradle
8	MULTI_SI	O	Serial data output to the main system controller
9	FRES_D29	I/O	Two-way data bus with the USB controller, main system controller, SD-RAM and NOR flash memory
10	GNDIO0	-	Ground terminal (for I/O)
11	EX_MULTI_SO	O	Serial data output to the D/A converter, power control and EL module
12	LCD_XCS	O	Chip select signal output to the EL module "L" active
13	SCLK1	O	Bit clock signal output to the main system controller
14	CRADLE_CS	O	Chip select signal output to the cradle "H" active
15	LRCK1	O	L/R sampling clock signal output to the main system controller
16	TSB	I/O	Two-way TSB communication data bus with the remote commander
17	VCCIO0	-	Power supply terminal (+3V) (for I/O)
18	DAC_XCS	O	Chip select signal output to the D/A converter "L" active
19	FRES_D30	I/O	Two-way data bus with the USB controller, main system controller, SD-RAM and NOR flash memory
20	RTC_CE	O	Chip enable signal output to the real time clock "H" active
21	FRES_D31	I/O	Two-way data bus with the USB controller, main system controller, SD-RAM and NOR flash memory
22	PWR_STRB	O	Chip select signal output to the power control "H" active
23	PWR_SLEEP	O	Standby signal output to the power control "H": standby mode
24	GNDIO0	-	Ground terminal (for I/O)
25	PWR_FFCLR	O	Start factor clear signal output to the power control "H" active
26	BAT_MON_CTL	O	Battery voltage monitor on/off control signal output to the power control "H": battery voltage monitor on
27	VBUS_LIM	O	USB current limit control signal output to the power control "L": 100 mA, "H": 500 mA
28	GPIO8	I/O	Not used
29	GPIO20	O	Not used
30	GPIO9	I/O	Not used
31	VCCIO0	-	Power supply terminal (+3V) (for I/O)
32	TCK	I	Clock signal input terminal (for JTAG) Not used
33	VCC	-	Power supply terminal (+1.8V) (for core)
34	GND	-	Ground terminal
35	KEY_LED2	O	LED drive signal output for key illumination "H": LED on
36	XHDD_PWR_CTL	O	Power on/off control signal output for hard disk drive unit "L": power on
37	XUSLEEP	O	Sleep signal output to the USB controller "L": sleep mode
38	HP_MUTE	O	Muting on/off control signal output to the audio amplifier "H": muting on
39	IIS_CLR	O	IIS CLR control signal output terminal
40	EL_PWR	O	Power on/off control signal output for EL module "H": power on
41	GNDIO0	-	Ground terminal (for I/O)

Pin No.	Pin Name	I/O	Description
42	VCCIO0	-	Power supply terminal (+3V) (for I/O)
43	CRD_MUTE1	O	Headphone/cradle selection signal output for audio output "L": headphone, "H": cradle
44	RESET_TSB	O	TSB reset signal output terminal Not used
45	HP_LINE_SEL	O	Headphone/cradle selection signal output for audio output to the audio amplifier "L": cradle, "H": headphone
46	XGSEN_PWR_CTL	O	Standby signal output to the G-sensor "L": standby mode
47	KEY_LED1	O	LED drive signal output for key illumination "H": LED on
48	D33_MODE	O	+3.3V regulator on/off control signal output terminal Not used
49	LCD_SO	I	Serial data input from the EL module Not used
50	NC	-	Not used
51	VCC	-	Power supply terminal (+1.8V) (for core)
52	NC	-	Not used
53	DC_OUT_CTL	O	Power on/off control signal output for cradle "H": power on
54	AF_DCIN_DET	I	AC adaptor connection detection signal input from the power control "L": AC adaptor is connected
55	SPI_CS2	I	Chip select signal input for serial control from the main system controller
56	SUSPEND	O	Power on/off control signal output at suspend mode "H": power on
57	SPI_CS1	I	Chip select signal input for serial control from the main system controller
58	JACK_DET	I	Cradle jack detection signal input terminal "L": cradle jack is detected
59	VCCIO1	-	Power supply terminal (+3V) (for I/O)
60	GNDIO1	-	Ground terminal (for I/O)
61	XCHG_STAT1	I	Charge state signal input terminal
62	GPIO5	I	Not used
63	XCHG_STAT2	I	Charge state signal input from the power control
64	SPI_CS0	I	Chip select signal input for serial control from the main system controller
65	DEN_SCK0	O	Serial data transfer clock signal output to the sub system controller
66	PLD_BEEP	O	Beep signal output to the audio amplifier
67	GND	-	Ground terminal
68	TMS	I	Mode selection signal input terminal (for JTAG)
69	VCCIO1	-	Power supply terminal (+3V) (for I/O)
70	MILTI_SCK	I	Serial data transfer clock signal input from the main system controller
71	CRADLE_SO	I	Serial data input from the cradle
72	TSB_SO	I	TSB serial data input from the main system controller
73	DEN_SO0	I	Serial data input from the sub system controller
74	TSB_RW	I	TSB read/write control signal input from the main system controller
75	NC	-	Not used
76	GNDIO1	-	Ground terminal (for I/O)
77	ADP_DET	I	AC adaptor/USB identification signal input terminal "L": USB, "H": AC adaptor
78	DEN_LRCKI	O	L/R sampling clock signal output to the sub system controller
79	NC	-	Not used
80	DEN_BCKI	O	Bit clock signal output to the sub system controller
81, 82	NC	-	Not used
83	VCCIO1	-	Power supply terminal (+3V) (for I/O)
84	SCLK2	I	Bit clock signal input from the main system controller
85	XRST	I	Reset signal input from the power control "L": reset
86	DEN_XRDE	I	Ready/busy selection signal input from the sub system controller "L": ready, "H": busy
87	DENDE_SERQ	I	Interrupt request signal input from the main system controller
88	WAKEUP_DENDE	I	Wake-up signal input from the main system controller

Pin No.	Pin Name	I/O	Description
89	SDATAO1	I	Audio data input from the main system controller
90	GNDIO1	-	Ground terminal (for I/O)
91	MULTI_SO	I	Serial data input from the main system controller
92	DEN_SI0	O	Serial data output to the sub system controller
93	WAKEUP_DEN	O	Wake-up signal output to the sub system controller
94	DEN_SERQ	O	Interrupt request signal output to the sub system controller
95	DEN_PCMDI	O	Audio data output to the sub system controller
96	XRESET_DEN	O	Reset signal output to the sub system controller "L": reset
97	VCCIO1	-	Power supply terminal (+3V) (for I/O)
98	TDO	O	Data output terminal (for JTAG) Not used
99	VCC	-	Power supply terminal (+1.8V) (for core)
100	GND	-	Ground terminal
101	DEN_BCK0	I	Bit clock signal input from the sub system controller
102	XINT_DEN	I	Interrupt request signal input from the sub system controller
103	DEN_PCMD0	I	Audio data input from the sub system controller
104	DEN_DATA_RDY	I	Ready signal input from the sub system controller
105	DEN_SCS0	I	Chip select signal input from the sub system controller
106	DEN_LRCK0	I	L/R sampling clock signal input from the sub system controller
107	GNDIO1	-	Ground terminal (for I/O)
108	VCCIO1	-	Power supply terminal (+3V) (for I/O)
109	FRES_RXW	I	Read/write control signal input from the main system controller
110	IIS_CLR_IN	I	IIS CLR control signal input terminal
111, 112	FRES_A3, FRES_A2	I	Address signal input from the main system controller
113	FRES_XOE	I	Read signal input from the main system controller
114	FRES_A1	I	Address signal input from the main system controller
115	FRES_XCS1	I	Chip select signal input from the main system controller
116	FS256	I	11.2896 MHz clock signal input from the main system controller
117	VCC	-	Power supply terminal (+1.8V) (for core)
118	NC	-	Not used
119	SCLK3	O	Bit clock signal output to the main system controller
120	DENDE_SS	O	Interrupt permission signal output to the main system controller
121	DATA_READY	O	Ready signal output to the main system controller
122	SDATAI3	O	Audio data output to the main system controller
123	LRCK3	O	L/R sampling clock signal output to the main system controller
124	XINT_DENDE	O	Interrupt request signal output to the main system controller
125	VCCIO0	-	Power supply terminal (+3V) (for I/O)
126	GNDIO0	-	Ground terminal (for I/O)
127	FRES_D27	I/O	Two-way data bus with the USB controller, main system controller, SD-RAM and NOR flash memory
128	NC	-	Not used
129	FRES_D26	I/O	Two-way data bus with the USB controller, main system controller, SD-RAM and NOR flash memory
130	NC	-	Not used
131, 132	FRES_D25, FRES_D24	I/O	Two-way data bus with the USB controller, main system controller, SD-RAM and NOR flash memory

IC9001 uPD68855 (POWER CONTROL, CHARGE CONTROL)

Pin No.	Pin Name	I/O	Description
1	VO1	O	Power supply output terminal (+1.1V)
2	VO2	O	Power supply output terminal (+1.8V)
3, 4	VO3	O	Power supply output terminal (+3.3V)
5	VO4	O	Power supply output terminal (+5V)
6	VO4-2	O	Power supply output terminal Not used
7	DCDC4EN	I	Power on/off control signal input for VO4 "H": power on
8	VCCVO1	-	Power supply terminal (+3.7V) (for VO1)
9	VCCVO2	-	Power supply terminal (+3.7V) (for VO2)
10, 11	VCCVO3	-	Power supply terminal (+3.7V) (for VO3)
12	GNDVO1	-	Ground terminal (for VO1)
13	GNDVO2	-	Ground terminal (for VO2)
14, 15	GNDVO3	-	Ground terminal (for VO3)
16	FB1	I	Feedback terminal (for VO1)
17	FB2	I	Feedback terminal (for VO2)
18	FB3	I	Feedback terminal (for VO3)
19	FB4	I	Feedback terminal (for VO4)
20	A1IN	I	Return capacity input terminal (for VO1)
21	A1OUT	O	Return capacity output terminal (for VO1)
22	A2IN	I	Return capacity input terminal (for VO2)
23	A2OUT	O	Return capacity output terminal (for VO2)
24	A3IN	I	Return capacity input terminal (for VO3)
25	A3OUT	O	Return capacity output terminal (for VO3)
26	LDO1IN	I	Power supply input terminal (+1.8V) (for LDO1)
27	LDO2IN	I	Power supply input terminal (+3.3V) (for LDO2)
28	LDO3IN	I	Power supply input terminal (for LDO3) Not used
29	LDO1	O	Power supply output terminal (+1.3V)
30	LDO2	O	Power supply output terminal (+3V)
31	LDO3	O	Power supply output terminal Not used
32	BG1	O	Power supply (BG1) output terminal (+2.8V)
33	BG1 (VDD)	I	Power supply (BG1) input terminal (+2.8V)
34	BG2	O	Power supply (BG2) output terminal (+1.4V)
35	BG3	O	Power supply (BG3) output terminal (+0.6V)
36	VREF	O	Reference voltage output terminal
37	VSTBY	O	Power supply (VSTBY) output terminal (+3V)
38, 39	VSUS1, VSUS2	O	Suspend output terminal Not used
40	WAKE0	I	Wake trigger input terminal (for set key)
41	WAKE1	I	Wake trigger input terminal (for DC power)
42	WAKE2	I	Wake trigger input terminal (for VBUS)
43, 44	WAKE3, WAKE4	I	Wake trigger input terminal Not used
45	WAKE5	I	Wake trigger input terminal (for remote commander key)
46	WAKE6	I	Wake trigger input terminal Not used
47	CLR	I	Start factor clear signal input from the PLD "H" active
48	STBY	I	Standby signal input from the PLD "H": standby mode
49, 50	XRST1, XRST2	O	Reset signal output terminal Not used
51	XRST3	O	Reset signal output to the D/A converter, main system controller, NOR flash memory and PLD "L": reset

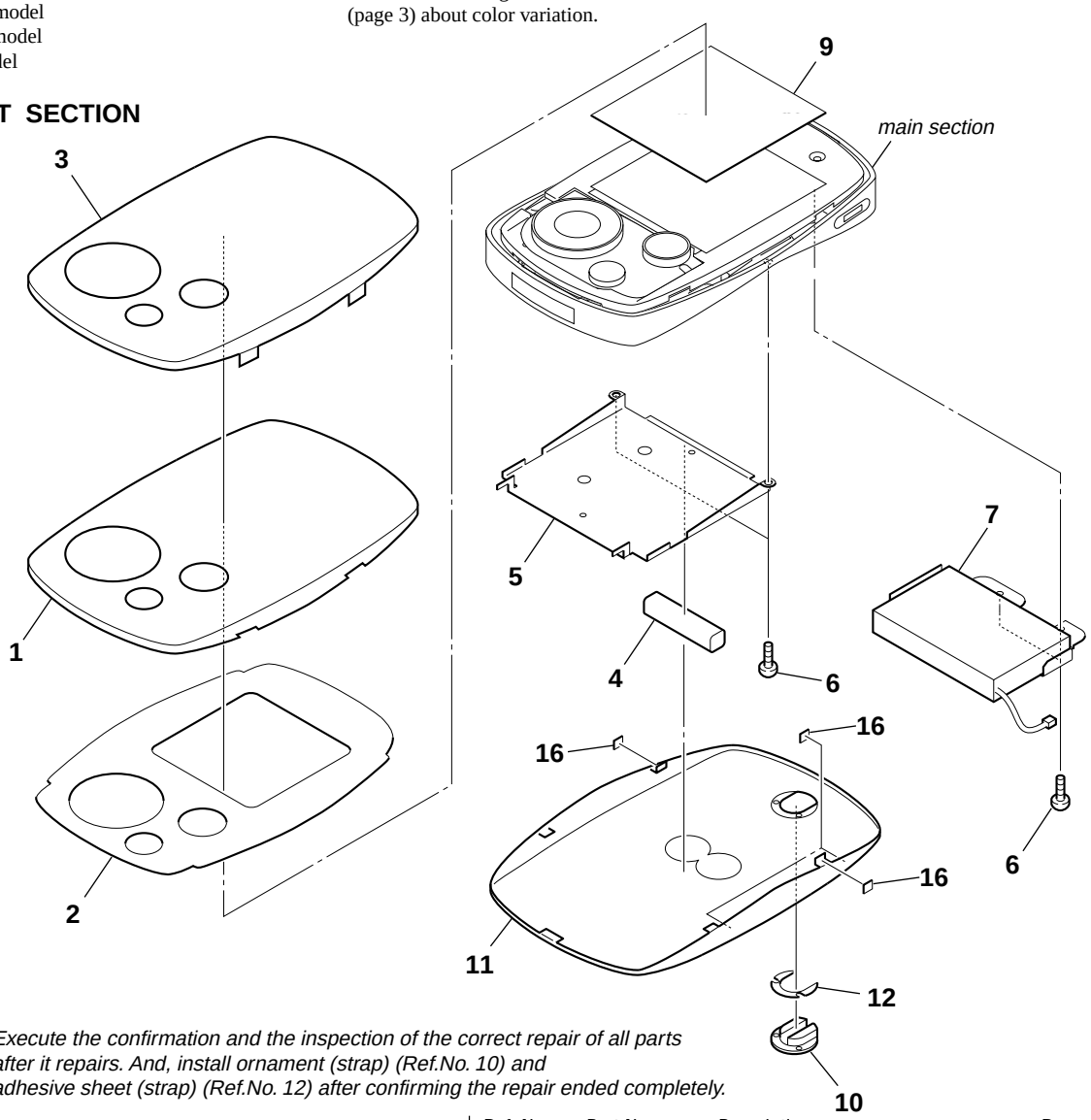
Pin No.	Pin Name	I/O	Description
52	CRST1	O	External capacitor connection terminal for reset delay (for XRST1)
53	CRST2	O	External capacitor connection terminal for reset delay (for XRST2)
54	CRST3	O	External capacitor connection terminal for reset delay (for XRST3)
55	SEQSEL	I	LDO output trigger selection signal input terminal "L": VO interlock, "H": XRST interlock Fixed at "L" in this set
56	SEL1	I	LDO1 and LDO3 power output control selection signal input terminal "L": When VBUS is detected, power is output, "H": power is always output Fixed at "H" in this set
57	SEL2	I	LDO1 and LDO3 power output control selection signal input terminal "L": according to the setting of SEL1, "H": power is output at a normal sequence Fixed at "H" in this set
58	DCIN_MON	I	DC power input monitor input terminal
59	VBUSIN	I	VBUS power supply input terminal (+5V)
60	VBUS_LIM	I	USB current limit control signal input from the PLD "L": 100 mA, "H": 500 mA
61	VBATT	I	Battery power supply input terminal (+3.7V)
62	BATTMON	O	Battery voltage monitor output to the main system controller
63	BATTMON_CTL	I	Battery voltage monitor on/off control signal input from the PLD "H": battery voltage monitor on
64	XDCIN_DET	O	DC power detection signal output terminal
65	XVBUS_DET	O	VBUS power detection signal output terminal
66	VBUSSUSPEND	I	Setting terminal for the USB suspend mode "H": USB suspend mode
67	XCHG_STAT1	O	Charging flag output terminal "L" active
68	XCHG_STAT2	O	Charge completion flag output terminal "L" active
69	TS	I	Temperature sensor input terminal
70	LOGIC_H	I	Power supply input terminal (+3V) (for logic "H")
71	CS	I	Chip select signal input from the PLD "H" active
72	SCK	I	Serial data transfer clock signal input from the PLD
73	SI	I	Serial data input from the PLD
74	SO	O	Serial data output to the main system controller
75	XGND_SW	O	Ground switch terminal for the remote commander
76	GPIO0	O	DC power on/off control signal output terminal "H": power on
77	GPIO1	O	Charge on/off control signal output terminal "L": charge on
78	RST	O	System reset signal input from the reset switch "L": reset For several hundreds msec. after the power supply rises, "L" is input, then it change to "H"
79	RMON11	I	External resistor return terminal
80	RMON12	I	External resistor return terminal
81	RMON21	I	External resistor return terminal
82	RMON22	I	External resistor return terminal
83	GATE1	O	VBUS or DC/battery power selection signal output terminal "L": battery power, "H": VBUS or DC power
84, 85	GATE2, GATE3	O	Battery power on/off control signal output terminal "H": power on
86	CHGREG	O	Reference voltage (+2.4V) output terminal for charge circuit
87, 88	VCC	-	Power supply terminal (+3.7V)
89 to 91	GND	-	Ground terminal
92	BGGND	-	Ground terminal (for BG)
93	DISGND	-	Ground terminal (for discharge)
94 to 96	TEST1 to TEST3	I	Input terminal for the test mode setting
97	TEST4	O	Output terminal for the test mode setting
98 to 100	NC	-	Not used

SECTION 6
EXPLODED VIEWS

NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Abbreviation
  AUS : Australian model
  CND: Canadian model
  KR : Korean model
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Accessories are given in the last of the electrical parts list.
- Refer to Servicing Notes "color variation" (page 3) about color variation.

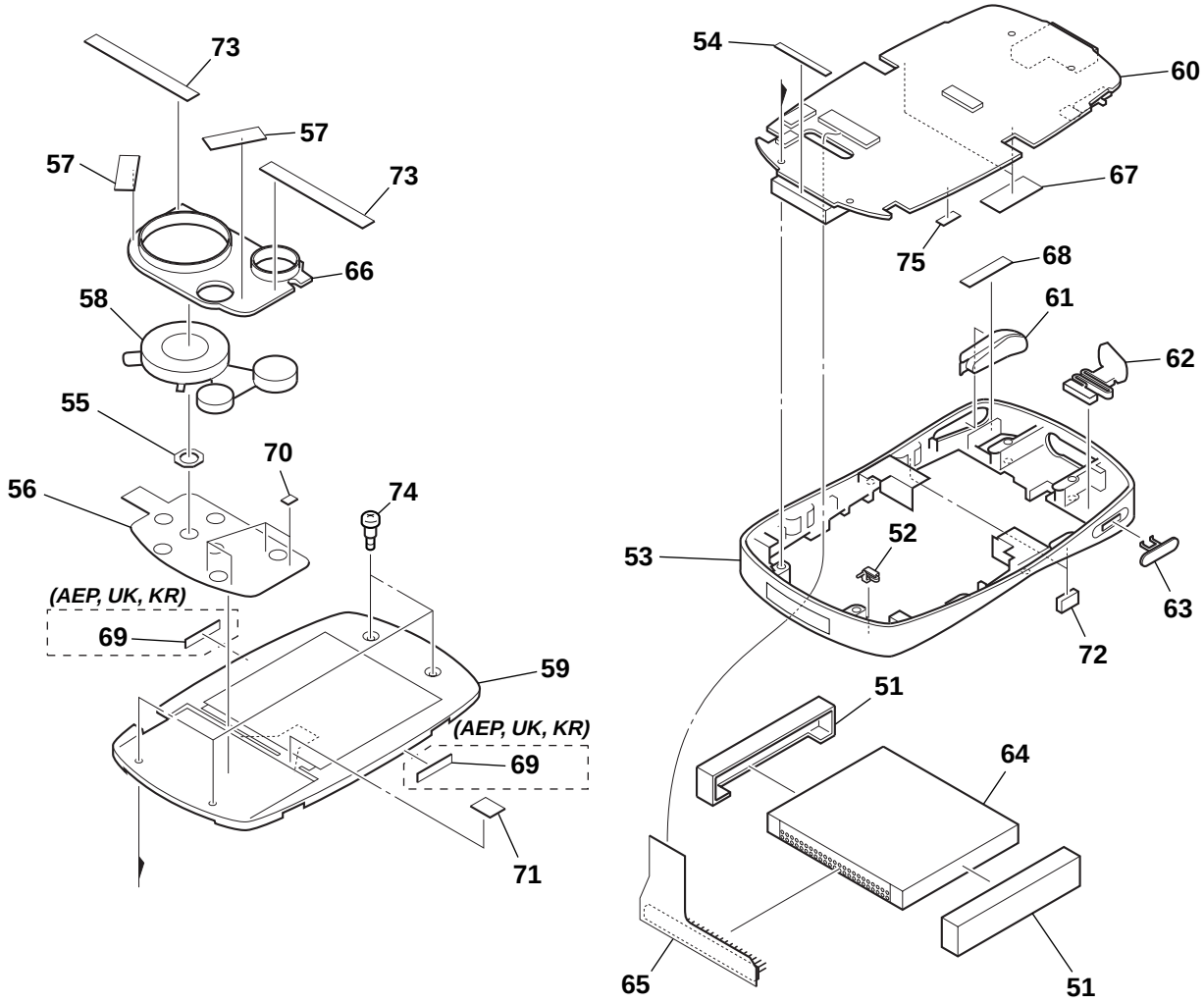
6-1. CABINET SECTION



Note: *Execute the confirmation and the inspection of the correct repair of all parts after it repairs. And, install ornament (strap) (Ref.No. 10) and adhesive sheet (strap) (Ref.No. 12) after confirming the repair ended completely.*

Ref. No.	Part No.	Description	Remark
1	X-2109-024-1	CABINET (INNER) SUB ASSY (for BLUE, SILVER, PINK, GOLD)	
1	X-2109-025-1	CABINET (INNER) (V) SUB ASSY (for VIOLET)	
1	X-2109-026-1	CABINET (INNER) (B) SUB ASSY (for BLACK)	
2	2-662-670-01	SHEET (CABINET) (US, CND, AUS)	
2	2-668-889-01	SHEET (ESD) (AEP, UK, KR)	
3	2-651-522-01	CABINET (UPPER) (VIOLET)	
3	2-651-522-11	CABINET (UPPER) (PINK)	
3	2-651-522-21	CABINET (UPPER) (BLUE)	
3	2-651-522-31	CABINET (UPPER) (SILVER)	
3	2-651-522-41	CABINET (UPPER) (BLACK)	
3	2-651-522-51	CABINET (UPPER) (GOLD)	
4	2-662-680-01	GASKET (HDD)	
5	2-651-646-01	BRACKET (HDD)	
6	3-252-823-01	SCREW (B1.4)	
7	X-2103-575-1	BATTERY BLOCK SUB ASSY (US, CND)	
7	X-2108-662-1	BATTERY BLOCK SUB ASSY (AEP, UK, AUS, KR)	
9	2-664-771-01	SHEET (OEL)	
10	2-651-530-01	ORNAMENT (STRAP) (for BLUE, SILVER, VIOLET, PINK, BLACK)	
10	2-651-530-11	ORNAMENT (STRAP) (for GOLD)	
11	2-651-529-01	CABINET (LOWER) (VIOLET)	
11	2-651-529-11	CABINET (LOWER) (PINK)	
11	2-651-529-21	CABINET (LOWER) (BLUE)	
11	2-651-529-31	CABINET (LOWER) (SILVER)	
11	2-651-529-41	CABINET (LOWER) (BLACK)	
11	2-651-529-51	CABINET (LOWER) (GOLD)	
12	2-651-531-01	SHEET (STRAP), ADHESIVE	
16	2-662-674-01	SHEET (CAB LOWER)	

6-2. MAIN SECTION



Note: *Refer to Servicing Notes "note on replacement of HDD unit" (3 page) when you exchange HDD unit (Ref. No. 64).*

Ref. No.	Part No.	Description	Remark
51	2-653-378-01	INSULATOR (CF1)	
52	2-651-526-01	BUTTON (RESET)	
53	2-651-525-01	CABINET (MIDDLE) (for BLUE, SILVER, VIOLET, PINK, BLACK)	
53	2-651-525-11	CABINET (MIDDLE) (for GOLD)	
54	2-662-673-01	SHEET (CN)	
55	2-665-691-01	SHEET (MIRROR)_SC	
56	1-479-536-11	SWITCH UNIT	
57	2-665-631-01	SHEET (ELECTROSTATIC G)	
58	X-2103-567-1	BUTTON BLOCK S SUB ASSY (SILVER)	
58	X-2103-568-1	BUTTON BLOCK V SUB ASSY (VIOLET)	
58	X-2103-569-1	BUTTON BLOCK L SUB ASSY (BLUE)	
58	X-2103-570-1	BUTTON BLOCK P SUB ASSY (PINK)	
58	X-2108-224-1	BUTTON BLOCK B SUB ASSY (BLACK)	
58	X-2108-225-1	BUTTON BLOCK N SUB ASSY (GOLD)	
59	X-2103-453-1	EL BLOCK SUB ASSY	
60	X-2103-452-1	MAIN BOARD, COMPLETE (for SERVICE)	
61	X-2108-211-1	BUTTON (LINK V) SUB ASSY (VIOLET)	
61	X-2108-213-1	BUTTON (LINK P) SUB ASSY (PINK)	
61	X-2108-216-1	BUTTON (LINK L) SUB ASSY (BLUE)	
61	X-2108-217-1	BUTTON (LINK S) SUB ASSY (SILVER)	
61	X-2108-228-1	BUTTON (LINK B) SUB ASSY (BLACK)	

Ref. No.	Part No.	Description	Remark
61	X-2108-229-1	BUTTON (LINK N) SUB ASSY (GOLD)	
62	2-651-527-01	BUTTON (HOLD) (for BLUE, SILVER, VIOLET, PINK, BLACK)	
62	2-651-527-11	BUTTON (HOLD) (for GOLD)	
63	2-652-123-01	KNOB (VOL) (for BLUE, SILVER, VIOLET, PINK, BLACK)	
63	2-652-123-11	KNOB (VOL) (for GOLD)	
64	1-479-526-11	HDD UNIT (6GB)	
65	1-479-537-11	CONNECTOR UNIT	
66	2-652-129-01	ORNAMENT (CONTROL) (for BLUE, SILVER, VIOLET, PINK, BLACK)	
66	2-652-129-11	ORNAMENT (CONTROL) (for GOLD)	
67	3-242-558-01	SPACER (LINE IN)	
68	2-662-677-01	SHEET (STOPPER)	
69	2-668-888-01	SHEET (CABINET MIDDLE) (AEP, UK, KR)	
70	2-665-693-01	SHEET (MIRROR)_CB	
71	3-242-558-11	SPACER (LINE IN)	
72	2-662-675-01	SHEET (HD)	
73	2-664-585-01	SHEET (ELECTROSTATIC CU)	
74	2-663-308-01	SCREW, STEP	
75	2-670-185-01	SHEET (IC)	

MAIN

SECTION 7
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Abbreviation
  CND : Canadian model
  KR : Korean model
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA... : µA... uPA... : µPA...
  uPB... : µPB... uPC... : µPC...
  uPD... : µPD...
- CAPACITORS
  uF: µF
- COILS
  uH: µH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
	X-2103-452-1	MAIN BOARD, COMPLETE (for SERVICE)			
		**********			
		< CAPACITOR/RESISTOR >			
C104	1-137-987-11	CERAMIC CHIP	0.068uF	10%	10V
C204	1-137-987-11	CERAMIC CHIP	0.068uF	10%	10V
C301	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C303	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C307	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C1012	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C1024	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C1033	1-135-868-11	TANTALUM CHIP	220uF	20%	2.5V
C1034	1-113-600-11	TANTALUM CHIP	2.2uF	20%	6.3V
C1036	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C1037	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C2011	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C2024	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C2031	1-113-600-11	TANTALUM CHIP	2.2uF	20%	6.3V
C2032	1-135-868-11	TANTALUM CHIP	220uF	20%	2.5V
C2033	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C2036	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C3004	1-216-085-00	RES-CHIP	33K	5%	1/10W
C3005	1-100-352-11	CERAMIC CHIP	1uF	20%	16V
C3007	1-117-919-11	TANTALUM CHIP	10uF	20%	6.3V
C3008	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C3009	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C3010	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C3018	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C3019	1-117-919-11	TANTALUM CHIP	10uF	20%	6.3V
C3020	1-135-337-11	TANTALUM CHIP	1uF	20%	6.3V
C3021	1-127-895-11	TANTALUM CHIP	22uF	20%	4V
C3022	1-137-858-11	TANTALUM CHIP	47uF	20%	6.3V
C3025	1-137-858-11	TANTALUM CHIP	47uF	20%	6.3V
C3026	1-137-858-11	TANTALUM CHIP	47uF	20%	6.3V
C3027	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C3028	1-137-858-11	TANTALUM CHIP	47uF	20%	6.3V
C3029	1-127-895-11	TANTALUM CHIP	22uF	20%	4V
C3030	1-137-858-11	TANTALUM CHIP	47uF	20%	6.3V
C3032	1-100-506-11	CERAMIC CHIP	1uF	20%	6.3V
C3034	1-100-352-11	CERAMIC CHIP	1uF	20%	16V
C3035	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C3038	1-100-415-11	CERAMIC CHIP	0.47uF	10%	6.3V
C3101	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C3102	1-100-506-11	CERAMIC CHIP	1uF	20%	6.3V
C3103	1-128-617-11	CERAMIC CHIP	100PF	5%	25V
C3104	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C3105	1-100-506-11	CERAMIC CHIP	1uF	20%	6.3V
C3106	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C3107	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C3108	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C3109	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C3110	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C3111	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C3112	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C3113	1-100-506-11	CERAMIC CHIP	1uF	20%	6.3V
C3114	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C3115	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C3116	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C4101	1-100-611-91	CERAMIC CHIP	22uF	20%	6.3V
C4102	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C4103	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C4104	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C4105	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C4106	1-164-842-11	CERAMIC CHIP	2PF	0.25PF	50V
C4201	1-100-506-11	CERAMIC CHIP	1uF	20%	6.3V
C4202	1-100-506-11	CERAMIC CHIP	1uF	20%	6.3V
C4203	1-100-506-11	CERAMIC CHIP	1uF	20%	6.3V
C4205	1-128-631-11	CERAMIC CHIP	0.0068uF	10%	6.3V
C4206	1-117-919-11	TANTALUM CHIP	10uF	20%	6.3V
C4207	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C5002	1-100-506-11	CERAMIC CHIP	1uF	20%	6.3V
C5003	1-100-507-91	CERAMIC CHIP	4.7uF	20%	6.3V
C5004	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
C5005	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C5006	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C5007	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C5008	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C5009	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C5010	1-164-848-11	CERAMIC CHIP	8PF	0.5PF	50V
C5011	1-164-848-11	CERAMIC CHIP	8PF	0.5PF	50V
C5012	1-164-850-11	CERAMIC CHIP	10PF	0.5PF	50V
C5013	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
C5014	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C5015	1-100-507-91	CERAMIC CHIP	4.7uF	20%	6.3V
C5016	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C5017	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C5018	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V

Ref. No.	Part No.	Description			Remark
C5019	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C5020	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C5021	1-100-841-11	TANTALUM CHIP	100uF	20%	6.3V
C5022	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C5023	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C5024	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C5025	1-117-919-11	TANTALUM CHIP	10uF	20%	6.3V
C5026	1-100-507-91	CERAMIC CHIP	4.7uF	20%	6.3V
C5027	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C5028	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C5029	1-128-632-11	CERAMIC CHIP	0.01uF	10%	6.3V
C6001	1-135-337-11	TANTALUM CHIP	1uF	20%	6.3V
C6009	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C6010	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C6011	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C6012	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C6013	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C6014	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C6015	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C6016	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C6017	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C6018	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C6019	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C6020	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C6021	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C6022	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C6023	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C6024	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C6025	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C6026	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C6027	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C6028	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C6029	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C6030	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C6031	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C6032	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C6033	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C6034	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C6035	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C6036	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C6037	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C6038	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C6039	1-128-626-11	CERAMIC CHIP	680PF	10%	16V
C6040	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C6041	1-100-506-11	CERAMIC CHIP	1uF	20%	6.3V
C6042	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C6043	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C6044	1-128-626-11	CERAMIC CHIP	680PF	10%	16V
C6045	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C6046	1-100-506-11	CERAMIC CHIP	1uF	20%	6.3V
C6048	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C6049	1-128-626-11	CERAMIC CHIP	680PF	10%	16V
C6050	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C6051	1-100-506-11	CERAMIC CHIP	1uF	20%	6.3V
C6052	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C6053	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C6054	1-128-626-11	CERAMIC CHIP	680PF	10%	16V
C6055	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C6056	1-100-506-11	CERAMIC CHIP	1uF	20%	6.3V
C6057	1-128-617-11	CERAMIC CHIP	100PF	5%	25V
C6058	1-128-617-11	CERAMIC CHIP	100PF	5%	25V
C6059	1-128-617-11	CERAMIC CHIP	100PF	5%	25V
C6060	1-128-617-11	CERAMIC CHIP	100PF	5%	25V
C6061	1-128-617-11	CERAMIC CHIP	100PF	5%	25V
C6062	1-128-617-11	CERAMIC CHIP	100PF	5%	25V
C6063	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C6065	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C6066	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C6067	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C7001	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C7002	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C7003	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C7004	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C7005	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C7006	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C7007	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C7008	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C7009	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C7010	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C7011	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C7012	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C7013	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C7014	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C7015	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C8001	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C8002	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C8003	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C8004	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C8005	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C8006	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C8007	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C8008	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C8009	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C8010	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C8011	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C8017	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C8018	1-100-504-11	CERAMIC CHIP	0.1uF	20%	6.3V
C8019	1-128-613-11	CERAMIC CHIP	47PF	5%	25V
C8020	1-128-613-11	CERAMIC CHIP	47PF	5%	25V
C8021	1-128-613-11	CERAMIC CHIP	47PF	5%	25V
C8022	1-128-613-11	CERAMIC CHIP	47PF	5%	25V
C8023	1-128-613-11	CERAMIC CHIP	47PF	5%	25V
C8024	1-128-613-11	CERAMIC CHIP	47PF	5%	25V
C8025	1-128-613-11	CERAMIC CHIP	47PF	5%	25V
C8026	1-128-613-11	CERAMIC CHIP	47PF	5%	25V
C8027	1-128-613-11	CERAMIC CHIP	47PF	5%	25V
C8301	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V
C8302	1-100-967-11	CERAMIC CHIP	4.7uF	20%	25V
C8303	1-100-967-11	CERAMIC CHIP	4.7uF	20%	25V
C8304	1-100-967-11	CERAMIC CHIP	4.7uF	20%	25V
C8305	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C8306	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C8307	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C8308	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C8310	1-100-967-11	CERAMIC CHIP	4.7uF	20%	25V

MAIN

Ref. No.	Part No.	Description				Remark
C8311	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	
C8312	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V	
C8314	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C8315	1-165-856-11	CERAMIC CHIP	1uF	10%	25V	
C8316	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	
C8317	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V	
C8319	1-100-841-11	TANTALUM CHIP	100uF	20%	6.3V	
C8320	1-100-841-11	TANTALUM CHIP	100uF	20%	6.3V	
C8321	1-100-967-11	CERAMIC CHIP	4.7uF	20%	25V	
C9001	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V	
C9002	1-107-819-11	CERAMIC CHIP	0.022uF	10%	16V	
C9003	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C9004	1-100-611-91	CERAMIC CHIP	22uF	20%	6.3V	
C9006	1-100-611-91	CERAMIC CHIP	22uF	20%	6.3V	
C9008	1-100-611-91	CERAMIC CHIP	22uF	20%	6.3V	
C9010	1-100-611-91	CERAMIC CHIP	22uF	20%	6.3V	
C9011	1-164-938-11	CERAMIC CHIP	0.0015uF	10%	50V	
C9012	1-164-942-11	CERAMIC CHIP	0.0068uF	10%	16V	
C9014	1-164-938-11	CERAMIC CHIP	0.0015uF	10%	50V	
C9016	1-100-752-11	CERAMIC CHIP	0.0012uF	5%	50V	
C9017	1-164-938-11	CERAMIC CHIP	0.0015uF	10%	50V	
C9019	1-100-966-11	CERAMIC CHIP	10uF	20%	10V	
C9020	1-100-752-11	CERAMIC CHIP	0.0012uF	5%	50V	
C9022	1-100-506-11	CERAMIC CHIP	1uF	20%	6.3V	
C9023	1-100-506-11	CERAMIC CHIP	1uF	20%	6.3V	
C9024	1-100-742-91	CERAMIC CHIP	2.2uF	20%	10V	
C9025	1-100-506-11	CERAMIC CHIP	1uF	20%	6.3V	
C9028	1-100-506-11	CERAMIC CHIP	1uF	20%	6.3V	
C9030	1-100-506-11	CERAMIC CHIP	1uF	20%	6.3V	
C9033	1-100-506-11	CERAMIC CHIP	1uF	20%	6.3V	
C9034	1-100-506-11	CERAMIC CHIP	1uF	20%	6.3V	
C9037	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	
C9038	1-100-611-91	CERAMIC CHIP	22uF	20%	6.3V	
C9039	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C9040	1-100-611-91	CERAMIC CHIP	22uF	20%	6.3V	
		< CONNECTOR >				
CN5001	1-819-822-11	CONNECTOR, FPC (ZIF) 39P				
CN8301	1-819-353-11	CONNECTOR, FPC (ZIF) 25P				
CN8302	1-818-537-21	CONNECTOR, FPC (ZIF) 11P				
CN9001	1-770-619-11	PIN, CONNECTOR 2P				
CN9201	(Not supplied)	CONNECTOR, MULTIPLE (SOCKET)				
		< DIODE >				
D302	6-500-776-01	DIODE MAZW068H0LS0				
D304	6-500-776-01	DIODE MAZW068H0LS0				
D305	6-500-776-01	DIODE MAZW068H0LS0				
D306	8-719-421-69	DIODE MA133				
D307	8-719-083-91	DIODE EDZ TE61 6.8B				
D308	8-719-083-91	DIODE EDZ TE61 6.8B				
D3001	8-719-046-85	DIODE MA2S728				
D4101	8-719-046-85	DIODE MA2S728				
D8301	8-719-046-85	DIODE MA2S728				
D8302	8-719-046-85	DIODE MA2S728				
D8303	6-500-813-01	DIODE MA2SD32008S0				
D8304	6-500-840-01	LED CL-270TLY-C-TS-F (LINK)				
D8305	6-500-813-01	DIODE MA2SD32008S0				
D8306	6-500-314-01	DIODE DAN222MT2L				

Ref. No.	Part No.	Description				Remark
D9001	6-500-483-01	DIODE MA22D2800LS0				
D9002	6-501-286-01	DIODE MA22D3900LS0				
D9003	8-719-071-34	DIODE RB521S-30-TE61				
D9004	8-719-071-34	DIODE RB521S-30-TE61				
D9005	6-501-286-01	DIODE MA22D3900LS0				
D9006	6-500-314-01	DIODE DAN222MT2L				
		< FUSE >				
⚠F3001	1-576-439-41	FUSE (0.25A/125V)				
		< FERRITE BEAD/RESISTOR >				
FB101	1-400-808-21	INDUCTOR (EMI FERRITE) (1608)				
FB201	1-400-808-21	INDUCTOR (EMI FERRITE) (1608)				
FB301	1-400-693-21	INDUCTOR, FERRITE BEAD (1005)				
FB302	1-218-941-11	RES-CHIP	100	5%		1/16W
FB303	1-400-198-21	INDUCTOR, FERRITE BEAD (1005)				
FB304	1-400-461-21	FERRITE, EMI (SMD) (1005)				
FB305	1-400-808-21	INDUCTOR (EMI FERRITE) (1608)				
FB3001	1-216-864-11	SHORT CHIP	0			
FB5001	1-400-693-21	INDUCTOR, FERRITE BEAD (1005)				
FB5002	1-400-693-21	INDUCTOR, FERRITE BEAD (1005)				
FB5003	1-218-990-11	SHORT CHIP	0			
FB5004	1-218-990-11	SHORT CHIP	0			
FB5005	1-469-084-21	FERRITE	0mH			
FB5006	1-469-084-21	FERRITE	0mH			
FB5007	1-218-990-11	SHORT CHIP	0			
FB5008	1-218-990-11	SHORT CHIP	0			
FB5009	1-216-864-11	SHORT CHIP	0			
FB5010	1-218-990-11	SHORT CHIP	0			
FB5011	1-218-990-11	SHORT CHIP	0			
FB6001	1-216-864-11	SHORT CHIP	0			
FB6002	1-216-864-11	SHORT CHIP	0			
FB6003	1-414-229-11	INDUCTOR, FERRITE BEAD				
FB6004	1-414-229-11	INDUCTOR, FERRITE BEAD				
FB6006	1-414-229-11	INDUCTOR, FERRITE BEAD				
FB6007	1-414-228-11	INDUCTOR, FERRITE BEAD				
FB7001	1-414-229-11	INDUCTOR, FERRITE BEAD				
FB7002	1-414-229-11	INDUCTOR, FERRITE BEAD				
FB9001	1-216-864-11	SHORT CHIP	0			
FB9002	1-216-864-11	SHORT CHIP	0			
		< IC >				
IC3001	6-708-969-01	IC XC6219B282DR				
IC3002	6-708-881-01	IC PCM1772RGAR				
IC3003	6-700-662-01	IC AN17020A-VB				
@ IC3101	8-753-249-20	IC CXR710160-215GH				
IC4101	6-703-012-01	IC R2061K01-E2				
IC4202	6-708-805-01	IC HAAM-313B				
@ IC5001	6-706-311-01	IC S1R72003BOOA100				
* IC6001	6-703-107-01	IC SN74LVC2G66DCUR				
IC6003	6-708-900-01	IC TS5A3357DCUR				
* IC6004	6-703-107-01	IC SN74LVC2G66DCUR				
@ IC6005	6-708-822-01	IC SCF5250				
IC6006	6-706-488-01	IC TC7SH14FU (T5RSOYJF)				
IC6007	6-706-488-01	IC TC7SH14FU (T5RSOYJF)				
@ IC7001	6-708-823-01	IC EDS1216AABH-75-E/KM				
IC7002	(Not supplied)	IC S29PL032J60BFI120				

@ Replacement of IC3101, 5001, 6005 and 7001 used in this set requires a special tool.

Note: CN9201 and IC7002 cannot exchange with single. When CN9201or IC7002 is damaged, exchange the entire mounted board.

Ref. No.	Part No.	Description			Remark
@ IC8001	6-805-984-03	IC LC4128ZC-75MN132C			
IC8301	6-708-817-01	IC TPS61045DRBR			
IC8302	6-707-529-01	IC TPS61041DBVR			
@ IC9001	6-708-829-01	IC uPD68855			
		< JACK >			
J301	1-817-933-21	JACK (🎧)			
		< JUMPER RESISTOR/COIL >			
L3001	1-216-864-11	SHORT CHIP	0		
L3002	1-216-864-11	SHORT CHIP	0		
L3003	1-216-864-11	SHORT CHIP	0		
L3101	1-400-797-11	INDUCTOR	100uH		
L3102	1-400-797-11	INDUCTOR	100uH		
L8301	1-457-175-21	COIL, CHOKE	10uH		
L8302	1-457-175-21	COIL, CHOKE	10uH		
L9001	1-457-174-21	COIL, CHOKE	4.7uH		
L9002	1-457-174-21	COIL, CHOKE	4.7uH		
L9003	1-457-173-21	COIL, CHOKE	2.2uH		
L9004	1-457-172-21	COIL, CHOKE	3.3uH		
		< TRANSISTOR >			
Q1001	8-729-050-32	TRANSISTOR	2SC5585TL		
Q1002	6-550-379-01	FET	2SK354700LS0		
Q1003	8-729-050-32	TRANSISTOR	2SC5585TL		
Q2001	8-729-050-32	TRANSISTOR	2SC5585TL		
Q2002	6-550-379-01	FET	2SK354700LS0		
Q2003	8-729-050-32	TRANSISTOR	2SC5585TL		
Q3003	8-729-427-47	TRANSISTOR	XP4213-TXE		
Q3005	6-550-859-01	FET	NTHD4508NT1G		
Q3006	6-550-859-01	FET	NTHD4508NT1G		
Q3007	8-729-050-32	TRANSISTOR	2SC5585TL		
Q3010	6-550-239-01	TRANSISTOR	DTA144EMT2L		
Q3011	6-550-239-01	TRANSISTOR	DTA144EMT2L		
Q5001	6-550-378-01	FET	ECH8301-TL-E		
Q8303	6-550-268-01	TRANSISTOR	DTC114YMT2L		
Q8304	6-550-237-01	TRANSISTOR	2SC5658T2LQ/R		
Q8305	6-550-237-01	TRANSISTOR	2SC5658T2LQ/R		
Q9001	6-551-317-01	FET	UPA1919TE-T1		
Q9002	6-551-317-01	FET	UPA1919TE-T1		
Q9003	6-551-317-01	FET	UPA1919TE-T1		
Q9005	6-551-446-01	FET	MTM261230LS0		
Q9006	6-551-446-01	FET	MTM261230LS0		
Q9007	6-551-074-01	TRANSISTOR	NP0A50100AS0		
Q9008	6-550-268-01	TRANSISTOR	DTC114YMT2L		
Q9009	6-551-074-01	TRANSISTOR	NP0A50100AS0		
Q9010	6-550-379-01	FET	2SK354700LS0		
Q9011	6-551-446-01	FET	MTM261230LS0		
Q9012	6-550-268-01	TRANSISTOR	DTC114YMT2L		
Q9013	6-551-446-01	FET	MTM261230LS0		
Q9014	6-551-347-01	FET	2SJ067400LS0		
		< RESISTOR >			
R102	1-244-161-11	RES-CHIP	2.2	5%	1/16W
R202	1-244-161-11	RES-CHIP	2.2	5%	1/16W
R1003	1-218-990-11	SHORT CHIP	0		
R1006	1-208-711-11	METAL CHIP	15K	0.5%	1/16W
R1007	1-208-923-11	METAL CHIP	33K	0.5%	1/16W
R1008	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R1009	1-218-977-11	RES-CHIP	100K	5%	1/16W
R1020	1-218-933-11	RES-CHIP	22	5%	1/16W
R1023	1-218-965-11	RES-CHIP	10K	5%	1/16W
R1024	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R2002	1-218-990-11	SHORT CHIP	0		
R2004	1-208-711-11	METAL CHIP	15K	0.5%	1/16W
R2005	1-208-923-11	METAL CHIP	33K	0.5%	1/16W
R2008	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R2009	1-218-977-11	RES-CHIP	100K	5%	1/16W
R2020	1-218-933-11	RES-CHIP	22	5%	1/16W
R2023	1-218-965-11	RES-CHIP	10K	5%	1/16W
R2024	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R3001	1-218-990-11	SHORT CHIP	0		
R3002	1-218-953-11	RES-CHIP	1K	5%	1/16W
R3003	1-218-990-11	SHORT CHIP	0		
R3014	1-218-929-11	RES-CHIP	10	5%	1/16W
R3015	1-242-967-11	RES-CHIP	1	5%	1/16W
R3016	1-218-979-11	RES-CHIP	150K	5%	1/16W
R3017	1-218-965-11	RES-CHIP	10K	5%	1/16W
R3018	1-218-990-11	SHORT CHIP	0		
R3019	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R3028	1-218-981-11	RES-CHIP	220K	5%	1/16W
R3031	1-218-987-11	RES-CHIP	680K	5%	1/16W
R3032	1-218-987-11	RES-CHIP	680K	5%	1/16W
R3033	1-216-864-11	SHORT CHIP	0		
R3038	1-218-989-11	RES-CHIP	1M	5%	1/16W
R3040	1-218-990-11	SHORT CHIP	0		
R3041	1-218-990-11	SHORT CHIP	0		
R3042	1-218-990-11	SHORT CHIP	0		
R3044	1-218-953-11	RES-CHIP	1K	5%	1/16W
R3103	1-218-990-11	SHORT CHIP	0		
R3104	1-218-990-11	SHORT CHIP	0		
R3105	1-218-990-11	SHORT CHIP	0		
R3106	1-218-985-11	RES-CHIP	470K	5%	1/16W
R3107	1-218-985-11	RES-CHIP	470K	5%	1/16W
R3108	1-218-945-11	RES-CHIP	220	5%	1/16W
R3109	1-218-990-11	SHORT CHIP	0		
R3110	1-218-985-11	RES-CHIP	470K	5%	1/16W
R3111	1-218-990-11	SHORT CHIP	0		
R3113	1-218-990-11	SHORT CHIP	0		
R3114	1-218-989-11	RES-CHIP	1M	5%	1/16W
R3115	1-218-990-11	SHORT CHIP	0		
R3116	1-218-977-11	RES-CHIP	100K	5%	1/16W
R3117	1-218-985-11	RES-CHIP	470K	5%	1/16W
R4101	1-218-990-11	SHORT CHIP	0		
R4102	1-218-990-11	SHORT CHIP	0		
R4103	1-218-977-11	RES-CHIP	100K	5%	1/16W
R4201	1-218-985-11	RES-CHIP	470K	5%	1/16W
R4202	1-218-981-11	RES-CHIP	220K	5%	1/16W
R4203	1-218-981-11	RES-CHIP	220K	5%	1/16W
R4204	1-218-981-11	RES-CHIP	220K	5%	1/16W
R4205	1-218-973-11	RES-CHIP	47K	5%	1/16W
R4206	1-218-973-11	RES-CHIP	47K	5%	1/16W
R4207	1-218-973-11	RES-CHIP	47K	5%	1/16W
R4208	1-218-929-11	RES-CHIP	10	5%	1/16W
R5001	1-218-929-11	RES-CHIP	10	5%	1/16W

@ Replacement of IC8001 and 9001 used in this set requires a special tool.

MAIN

Ref. No.	Part No.	Description			Remark
R5002	1-218-977-11	RES-CHIP	100K	5%	1/16W
R5003	1-208-905-11	METAL CHIP	5.6K	0.5%	1/16W
R5004	1-218-977-11	RES-CHIP	100K	5%	1/16W
R5005	1-218-990-11	SHORT CHIP	0		
R5006	1-218-989-11	RES-CHIP	1M	5%	1/16W
R5007	1-218-990-11	SHORT CHIP	0		
R5008	1-218-977-11	RES-CHIP	100K	5%	1/16W
R5009	1-218-977-11	RES-CHIP	100K	5%	1/16W
R5010	1-218-990-11	SHORT CHIP	0		
R5011	1-218-990-11	SHORT CHIP	0		
R5012	1-218-990-11	SHORT CHIP	0		
R5013	1-218-973-11	RES-CHIP	47K	5%	1/16W
R5014	1-218-940-11	RES-CHIP	82	5%	1/16W
R5015	1-218-989-11	RES-CHIP	1M	5%	1/16W
R5016	1-218-933-11	RES-CHIP	22	5%	1/16W
R5017	1-218-940-11	RES-CHIP	82	5%	1/16W
R5018	1-218-933-11	RES-CHIP	22	5%	1/16W
R5019	1-218-933-11	RES-CHIP	22	5%	1/16W
R5020	1-218-940-11	RES-CHIP	82	5%	1/16W
R5021	1-218-965-11	RES-CHIP	10K	5%	1/16W
R5022	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R5023	1-218-965-11	RES-CHIP	10K	5%	1/16W
R5024	1-218-965-11	RES-CHIP	10K	5%	1/16W
R5025	1-218-935-11	RES-CHIP	33	5%	1/16W
R5026	1-218-935-11	RES-CHIP	33	5%	1/16W
R5027	1-218-935-11	RES-CHIP	33	5%	1/16W
R5028	1-218-935-11	RES-CHIP	33	5%	1/16W
R5029	1-218-935-11	RES-CHIP	33	5%	1/16W
R5030	1-218-935-11	RES-CHIP	33	5%	1/16W
R5031	1-218-935-11	RES-CHIP	33	5%	1/16W
R5032	1-218-935-11	RES-CHIP	33	5%	1/16W
R5033	1-218-935-11	RES-CHIP	33	5%	1/16W
R5034	1-218-962-11	RES-CHIP	5.6K	5%	1/16W
R5035	1-218-965-11	RES-CHIP	10K	5%	1/16W
R5036	1-218-935-11	RES-CHIP	33	5%	1/16W
R5037	1-218-935-11	RES-CHIP	33	5%	1/16W
R5038	1-218-935-11	RES-CHIP	33	5%	1/16W
R5039	1-218-935-11	RES-CHIP	33	5%	1/16W
R5040	1-218-935-11	RES-CHIP	33	5%	1/16W
R5041	1-218-935-11	RES-CHIP	33	5%	1/16W
R5042	1-218-935-11	RES-CHIP	33	5%	1/16W
R5043	1-218-935-11	RES-CHIP	33	5%	1/16W
R5044	1-218-935-11	RES-CHIP	33	5%	1/16W
R5045	1-218-935-11	RES-CHIP	33	5%	1/16W
R5047	1-218-990-11	SHORT CHIP	0		
R5048	1-218-990-11	SHORT CHIP	0		
R5049	1-218-990-11	SHORT CHIP	0		
R5050	1-218-990-11	SHORT CHIP	0		
R5051	1-218-990-11	SHORT CHIP	0		
R5052	1-218-990-11	SHORT CHIP	0		
R5053	1-218-990-11	SHORT CHIP	0		
R5054	1-218-990-11	SHORT CHIP	0		
R5055	1-218-990-11	SHORT CHIP	0		
R6003	1-218-977-11	RES-CHIP	100K	5%	1/16W
R6006	1-218-977-11	RES-CHIP	100K	5%	1/16W
R6007	1-218-990-11	SHORT CHIP	0		
R6008	1-218-990-11	SHORT CHIP	0		
R6009	1-218-965-11	RES-CHIP	10K	5%	1/16W

Ref. No.	Part No.	Description			Remark
R6014	1-218-990-11	SHORT CHIP	0		
R6015	1-218-990-11	SHORT CHIP	0		
R6016	1-218-989-11	RES-CHIP	1M	5%	1/16W
R6017	1-218-990-11	SHORT CHIP	0		
R6018	1-218-990-11	SHORT CHIP	0		
R6019	1-218-990-11	SHORT CHIP	0		
R6020	1-218-990-11	SHORT CHIP	0		
R6022	1-218-965-11	RES-CHIP	10K	5%	1/16W
R6023	1-218-990-11	SHORT CHIP	0		
R6024	1-218-965-11	RES-CHIP	10K	5%	1/16W
R6029	1-218-977-11	RES-CHIP	100K	5%	1/16W
R6030	1-218-977-11	RES-CHIP	100K	5%	1/16W
R6033	1-218-977-11	RES-CHIP	100K	5%	1/16W
R6034	1-218-977-11	RES-CHIP	100K	5%	1/16W
R6035	1-218-977-11	RES-CHIP	100K	5%	1/16W
R6036	1-218-977-11	RES-CHIP	100K	5%	1/16W
R6037	1-218-977-11	RES-CHIP	100K	5%	1/16W
R6038	1-218-977-11	RES-CHIP	100K	5%	1/16W
R6039	1-218-977-11	RES-CHIP	100K	5%	1/16W
R6040	1-218-977-11	RES-CHIP	100K	5%	1/16W
R6041	1-218-977-11	RES-CHIP	100K	5%	1/16W
R6045	1-218-977-11	RES-CHIP	100K	5%	1/16W
R6046	1-218-977-11	RES-CHIP	100K	5%	1/16W
R6047	1-218-977-11	RES-CHIP	100K	5%	1/16W
R6048	1-218-977-11	RES-CHIP	100K	5%	1/16W
R6049	1-218-977-11	RES-CHIP	100K	5%	1/16W
R6050	1-218-977-11	RES-CHIP	100K	5%	1/16W
R6051	1-218-990-11	SHORT CHIP	0		
R6052	1-218-990-11	SHORT CHIP	0		
R6054	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R6055	1-218-990-11	SHORT CHIP	0		
R6056	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
R6057	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
R6058	1-208-935-11	METAL CHIP	100K	0.5%	1/16W
R6060	1-218-990-11	SHORT CHIP	0		
R7001	1-218-985-11	RES-CHIP	470K	5%	1/16W
R7002	1-218-977-11	RES-CHIP	100K	5%	1/16W
R8001	1-218-990-11	SHORT CHIP	0		
R8003	1-218-990-11	SHORT CHIP	0		
R8004	1-218-965-11	RES-CHIP	10K	5%	1/16W
R8005	1-218-965-11	RES-CHIP	10K	5%	1/16W
R8008	1-218-985-11	RES-CHIP	470K	5%	1/16W
R8011	1-218-977-11	RES-CHIP	100K	5%	1/16W
R8012	1-218-965-11	RES-CHIP	10K	5%	1/16W
R8013	1-218-965-11	RES-CHIP	10K	5%	1/16W
R8014	1-218-965-11	RES-CHIP	10K	5%	1/16W
R8015	1-218-965-11	RES-CHIP	10K	5%	1/16W
R8016	1-218-969-11	RES-CHIP	22K	5%	1/16W
R8017	1-218-969-11	RES-CHIP	22K	5%	1/16W
R8018	1-218-969-11	RES-CHIP	22K	5%	1/16W
R8019	1-218-969-11	RES-CHIP	22K	5%	1/16W
R8020	1-218-969-11	RES-CHIP	22K	5%	1/16W
R8021	1-218-969-11	RES-CHIP	22K	5%	1/16W
R8022	1-218-969-11	RES-CHIP	22K	5%	1/16W
R8023	1-218-969-11	RES-CHIP	22K	5%	1/16W
R8024	1-218-965-11	RES-CHIP	10K	5%	1/16W
R8025	1-218-965-11	RES-CHIP	10K	5%	1/16W

Ref. No.	Part No.	Description			Remark
R8026	1-218-965-11	RES-CHIP	10K	5%	1/16W
R8027	1-218-965-11	RES-CHIP	10K	5%	1/16W
R8028	1-218-965-11	RES-CHIP	10K	5%	1/16W
R8029	1-218-965-11	RES-CHIP	10K	5%	1/16W
R8030	1-218-965-11	RES-CHIP	10K	5%	1/16W
R8031	1-218-965-11	RES-CHIP	10K	5%	1/16W
R8032	1-218-990-11	SHORT CHIP	0		
R8033	1-218-990-11	SHORT CHIP	0		
R8034	1-218-990-11	SHORT CHIP	0		
R8035	1-218-929-11	RES-CHIP	10	5%	1/16W
R8036	1-218-929-11	RES-CHIP	10	5%	1/16W
R8037	1-218-929-11	RES-CHIP	10	5%	1/16W
R8038	1-218-990-11	SHORT CHIP	0		
R8039	1-218-990-11	SHORT CHIP	0		
R8040	1-218-929-11	RES-CHIP	10	5%	1/16W
R8301	1-218-990-11	SHORT CHIP	0		
R8302	1-218-990-11	SHORT CHIP	0		
R8303	1-218-989-11	RES-CHIP	1M	5%	1/16W
R8304	1-208-695-11	METAL CHIP	3.3K	0.5%	1/16W
R8306	1-208-687-11	METAL CHIP	1.5K	0.5%	1/16W
R8307	1-208-687-11	METAL CHIP	1.5K	0.5%	1/16W
R8308	1-208-683-11	METAL CHIP	1K	0.5%	1/16W
R8309	1-208-683-11	METAL CHIP	1K	0.5%	1/16W
R8310	1-218-989-11	RES-CHIP	1M	5%	1/16W
R8311	1-218-989-11	RES-CHIP	1M	5%	1/16W
R8312	1-208-679-11	METAL CHIP	680	0.5%	1/16W
R8313	1-208-679-11	METAL CHIP	680	0.5%	1/16W
R8314	1-208-679-11	METAL CHIP	680	0.5%	1/16W
R8315	1-208-679-11	METAL CHIP	680	0.5%	1/16W
R8316	1-218-985-11	RES-CHIP	470K	5%	1/16W
R8317	1-218-941-11	RES-CHIP	100	5%	1/16W
R8318	1-218-941-11	RES-CHIP	100	5%	1/16W
R8319	1-208-699-11	METAL CHIP	4.7K	0.5%	1/16W
R8320	1-208-699-11	METAL CHIP	4.7K	0.5%	1/16W
R8321	1-216-864-11	SHORT CHIP	0		
R8322	1-218-989-11	RES-CHIP	1M	5%	1/16W
R8323	1-208-935-11	METAL CHIP	100K	0.5%	1/16W
R8324	1-208-935-11	METAL CHIP	100K	0.5%	1/16W
R8325	1-218-949-11	RES-CHIP	470	5%	1/16W
R8326	1-218-977-11	RES-CHIP	100K	5%	1/16W
R8327	1-218-977-11	RES-CHIP	100K	5%	1/16W
R8328	1-218-977-11	RES-CHIP	100K	5%	1/16W
R8329	1-218-977-11	RES-CHIP	100K	5%	1/16W
R8330	1-218-977-11	RES-CHIP	100K	5%	1/16W
R8331	1-218-977-11	RES-CHIP	100K	5%	1/16W
R8339	1-218-989-11	RES-CHIP	1M	5%	1/16W
R8340	1-208-952-11	METAL CHIP	510K	0.5%	1/16W
R8341	1-208-935-11	METAL CHIP	100K	0.5%	1/16W
R8344	1-218-973-11	RES-CHIP	47K	5%	1/16W
R8345	1-218-823-11	METAL CHIP	100	0.5%	1/10W
R8346	1-220-200-11	RES-CHIP	30K	5%	1/16W
R8347	1-220-200-11	RES-CHIP	30K	5%	1/16W
R8348	1-218-973-11	RES-CHIP	47K	5%	1/16W
R8349	1-218-823-11	METAL CHIP	100	0.5%	1/10W
R8350	1-216-864-11	SHORT CHIP	0		
R8351	1-218-977-11	RES-CHIP	100K	5%	1/16W
R8352	1-218-977-11	RES-CHIP	100K	5%	1/16W
R9001	1-219-797-11	METAL CHIP	0.33	1%	1/4W
R9002	1-219-797-11	METAL CHIP	0.33	1%	1/4W
R9003	1-218-953-11	RES-CHIP	1K	5%	1/16W
R9004	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R9005	1-218-941-11	RES-CHIP	100	5%	1/16W
R9006	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R9007	1-218-985-11	RES-CHIP	470K	5%	1/16W
R9008	1-218-985-11	RES-CHIP	470K	5%	1/16W
R9009	1-218-985-11	RES-CHIP	470K	5%	1/16W
R9010	1-208-911-11	METAL CHIP	10K	0.5%	1/16W
R9011	1-218-985-11	RES-CHIP	470K	5%	1/16W
R9012	1-218-985-11	RES-CHIP	470K	5%	1/16W
R9013	1-218-990-11	SHORT CHIP	0		
R9015	1-218-977-11	RES-CHIP	100K	5%	1/16W
R9016	1-218-985-11	RES-CHIP	470K	5%	1/16W
R9017	1-218-985-11	RES-CHIP	470K	5%	1/16W
R9018	1-218-965-11	RES-CHIP	10K	5%	1/16W
R9020	1-218-965-11	RES-CHIP	10K	5%	1/16W
R9021	1-218-990-11	SHORT CHIP	0		
R9022	1-218-965-11	RES-CHIP	10K	5%	1/16W
R9024	1-218-990-11	SHORT CHIP	0		
R9033	1-218-977-11	RES-CHIP	100K	5%	1/16W
R9034	1-208-939-11	METAL CHIP	150K	0.5%	1/16W
R9035	1-218-977-11	RES-CHIP	100K	5%	1/16W
R9036	1-218-977-11	RES-CHIP	100K	5%	1/16W
R9039	1-218-977-11	RES-CHIP	100K	5%	1/16W
R9040	1-218-990-11	SHORT CHIP	0		
R9041	1-218-985-11	RES-CHIP	470K	5%	1/16W
R9042	1-218-985-11	RES-CHIP	470K	5%	1/16W
R9043	1-218-985-11	RES-CHIP	470K	5%	1/16W
R9044	1-218-985-11	RES-CHIP	470K	5%	1/16W
R9047	1-218-990-11	SHORT CHIP	0		
R9048	1-208-703-11	METAL CHIP	6.8K	0.5%	1/16W
R9049	1-218-990-11	SHORT CHIP	0		
R9050	1-208-695-11	METAL CHIP	3.3K	0.5%	1/16W
R9051	1-208-675-11	METAL CHIP	470	0.5%	1/16W
R9053	1-218-990-11	SHORT CHIP	0		
R9054	1-218-990-11	SHORT CHIP	0		
R9056	1-218-985-11	RES-CHIP	470K	5%	1/16W
R9057	1-218-973-11	RES-CHIP	47K	5%	1/16W
R9058	1-218-977-11	RES-CHIP	100K	5%	1/16W
R9059	1-218-989-11	RES-CHIP	1M	5%	1/16W
R9060	1-218-985-11	RES-CHIP	470K	5%	1/16W
R9061	1-218-990-11	SHORT CHIP	0		
R9062	1-218-989-11	RES-CHIP	1M	5%	1/16W
R9063	1-218-949-11	RES-CHIP	470	5%	1/16W
R9064	1-218-953-11	RES-CHIP	1K	5%	1/16W
R9066	1-218-990-11	SHORT CHIP	0		
R9067	1-218-985-11	RES-CHIP	470K	5%	1/16W
R9069	1-218-977-11	RES-CHIP	100K	5%	1/16W

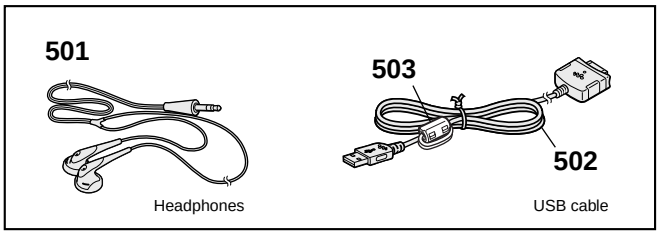
< SWITCH >

S901	1-786-845-11	SWITCH, TACTILE (RESET)
S8301	1-786-910-11	SWITCH, SLIDE (VOL +/–)
S8302	1-786-845-11	SWITCH, TACTILE (LINK)
S8303	1-786-845-11	SWITCH, TACTILE (HOLD)

MAIN

Ref. No.	Part No.	Description	Remark
		< THERMISTOR >	
TH9001	1-804-949-11	THERMISTOR, NTC (SMD)	
TH9002	1-805-719-11	THERMISTOR, POSITIVE	
		< VARISTOR >	
VDR3101	1-804-209-21	VARISTOR (SMD) (1005)	
VDR3102	1-804-209-21	VARISTOR (SMD) (1005)	
VDR3103	1-804-209-21	VARISTOR (SMD) (1005)	
VDR3104	1-804-209-21	VARISTOR (SMD) (1005)	
		< VIBRATOR >	
X3101	1-795-891-21	VIBRATOR, CERAMIC (22.5792MHz)	
X4101	1-795-602-11	VIBRATOR, CRYSTAL (32.768kHz)	
X5001	1-813-362-11	VIBRATOR, CRYSTAL (12MHz)	
X6001	1-813-719-11	VIBRATOR, CERAMIC (22.5792MHz)	
**********			
		MISCELLANEOUS	
		**********	
7	X-2103-575-1	BATTERY BLOCK SUB ASSY (US, CND)	
7	X-2108-662-1	BATTERY BLOCK SUB ASSY	(AEP, UK, AUS, KR)
56	1-479-536-11	SWITCH UNIT	
59	X-2103-453-1	EL BLOCK SUB ASSY	
64	1-479-526-11	HDD UNIT (6GB)	
65	1-479-537-11	CONNECTOR UNIT	
**********			

Ref. No.	Part No.	Description	Remark
		ACCESSORIES	
		**********	
⚠	1-479-577-11	ADAPTOR, AC (AC-S508U) (AEP, UK)	
⚠	1-479-577-21	ADAPTOR, AC (AC-S508U) (US, CND)	
⚠	1-479-577-41	ADAPTOR, AC (AC-S505U) (AUS, KR)	
	1-500-386-11	FILTER, CLAMP (FERRITE CORE)	(for AC POWER CORD)
	1-555-074-32	CORD, POWER (AC POWER CORD) (AUS)	
⚠	1-823-935-61	CORD, AC POWER (AC POWER CORD) (UK)	
⚠	1-823-947-61	POWER-SUPPLY CORD (AC POWER CORD)	(KR)
⚠	1-824-910-41	CORD, POWER (AC POWER CORD) (AEP)	
⚠	1-829-810-21	CORD, POWER (AC POWER CORD) (US, CND)	
	1-831-406-11	CORD (WITH PLUG)	(Headphone extension cord)
	2-657-722-13	GUIDE, QUICK START (ENGLISH) (EXCEPT KR)	
	2-657-722-23	GUIDE, QUICK START (FRENCH) (CND, AEP)	
	2-657-722-33	GUIDE, QUICK START (GERMAN) (AEP)	
	2-657-722-43	GUIDE, QUICK START (SPANISH) (AEP)	
	2-657-722-53	GUIDE, QUICK START (ITALIAN) (AEP)	
	2-657-722-63	GUIDE, QUICK START (DUTCH) (AEP)	
	2-657-722-81	GUIDE, QUICK START	(TRADITIONAL CHINESE) (UK)
	2-657-722-92	GUIDE, QUICK START (KOREAN) (KR)	
	2-664-291-03	SOFT, APPLICATION (CD-ROM: CONNECT Player Software, Operation Guide (PDF file))	
501	8-912-752-94	RECEIVER MDR-E0931SPV9 SET	(for VIOLET model)
501	8-912-752-95	RECEIVER MDR-E0931SS19 SET	(for SILVER, BLACK, GOLD model)
501	8-912-752-96	RECEIVER MDR-E0931SPP9 SET	(for PINK model)
501	8-912-752-97	RECEIVER MDR-E0931SPL9 SET	(for BLUE model)
502	1-831-477-11	CABLE, USB	
503	1-543-798-31	FILTER, CLAMP (FERRITE CORE)	(for USB CABLE)



MEMO

REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2005.11	New